

USACERL Technical Report 98/100 August 1998

Land Condition Trend Analysis Avian Database: Ecological Guild-based Summaries

by

Eric R. Schreiber and William R. Whitworth

Common Name	Barred Owl
Scientific Name	Strix varia
LCTA Code	STVA
Alpha Code	BAOW
AOU#	3680
Neotropical	Resident
Migrant Status	
General Habitat	Forest, Swamp/Marsh
Nest Type	Cavity
Nest Location	Snag, Woody Upper Canopy
Food Type	Small Mammals, Birds
Foraging	Low Patrol, Hover & Pounce
Technique	



Land Condition Trend Analysis (LCTA) bird database documentation capabilities often are limited to generating installation-wide species checklists, estimates of relative abundance, and evidence of breeding activity. The conservation and characterization of biological diversity is becoming a management objective of both government and private organizations, and as such, more ecologically descriptive summaries are being required.

Ecological guild analyses have been proposed as a means to link wildlife to a specific biodiversity component, and thus represent an option to military trainers in evaluating impacts to wildlife communities.

This report documents an LCTA database update that provides selected ecological attributes (particularly for the nesting season) for 676 bird species occurring within the continental United States. This database upgrade provides land managers the capability to: (1) generate ecological guild-based summaries with no additional fieldwork, (2) identify specific groups of birds most likely to be impacted by a spatially discrete training impact, (3) customize the local database by adjusting individual attributes for species specific to the installation, and (4) conveniently cross reference or simply convert all LCTA species codes to more globally recognized American Ornithological Union "AOU numbers" or the Bird Banding Laboratories "Alpha codes."

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Foreword

This study was conducted for the Office of the Directorate of Environmental Programs (ODEP), Assistant Chief of Staff for Installation Management (ACSIM) under Project 4A162720A896, "Environmental Quality Technology"; Work Unit EN-UD5, "LCTA Applications for Integrated Natural Resources Management and Environmental Compliance." The technical monitor was Dr. Victor E. Diersing, DAIM-ED-N.

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1 Introduction

Background

The U.S. Army is responsible for managing 5 million hectares (12.4 million acres) of land on approximately 120 military installations throughout the United States (Tazik and Pierce 1994). As part of an integrated land management approach and under the sponsorship of the U.S. Army Engineering and Housing Support Center (USAEHSC), the U.S. Army Land Condition Trend Analysis (LCTA) program was developed at the U.S. Army Construction Engineering Research Laboratories (USACERL). The foundation of the LCTA program is the use of standardized methods to collect, analyze, and report natural resources data and is the Army's standard for land inventory and monitoring (Technical Note [TN] 420-74-3 1990). Approximately 50 major military training and testing installations in the United States and Germany have initiated or completed implementation of the LCTA program (Tazik et al. 1992).

In addition to providing sufficient training opportunities, land managers must consider a variety of multiple use demands and endangered species issues on a daily basis. For example, the conservation of biological diversity increasingly is a management goal for many state and federal agencies, including the Army, as outlined in section 11-1(c) of Army Regulation (AR) 200-3 (1995). Unfortunately, the funds to support research efforts under conservation of biological diversity an extremely broad subject area, will likely be difficult to obtain in the future, and installation staff must continue to do more with less. An economic alternative to obtaining new data is to maximize analyses done on existing data from past and current efforts.

Avian guild theory has been reported as a relatively simple option for evaluating impacts of a variety of military land use actions on an installation's avian community (Severinghaus 1981), and can be readily incorporated into a relational database such LCTA. Root (1967) was among the first to discuss the guild concept, defining guilds as "a group of species that exploit the same class of environmental resources in a similar way." A less restrictive definition is provided by Landres (1983), who defines a guild simply as "...a group of species that use a similar resource." An important premise in the guild concept is that wildlife species are associated with structures and/or spatial layers or zones

within habitats. Moreover, as more layers occur in a community, potentially more niches are included, and more wildlife species likely to occur (Short 1983). Assuming guild members are correctly identified, actions that affect environmental resources will similarly affect the members of the guilds using the resources.

Numerous avian guilds have been recognized or proposed; include groupings based on nesting substrate/location, feeding strategy, migratory tendency, and general nesting and feeding associations (Short 1983; Terres 1987; Peterjohn and Sauer 1993; Droege and Sauer 1989). Admittedly, the definition and application of guild theory is a point of debate among researchers, but the strong appeal of guild-based summaries is the ability to present plot data from a functional perspective rather than rely solely on species richness (plot, habitat, or installation-wide), similarity indices, and other traditional (numerical) measures of diversity. Moreover, associating species with specific environmental attributes or resources can aid in the risk assessment process. For instance, once the resource(s) to be affected by training activities is known, avian guilds (species) likely to be affected can be readily identified. Avian guilds are easily defined from LCTA survey data and can provide an understanding of how species assemblages change over time relative to a resource. Grouping of species has the added benefit of reducing bias associated with individual species detection rates while effectively increasing sample size and the power (beta) of statistical tests.

Objectives

The primary objectives of this report are to:

- 1. Expand the utility of LCTA data by providing published ecological attributes for all bird species that occur in, or those that migrate through, the United States,
- 2. Describe common guild associations and provide documentation enabling installation natural resources personnel to adjust their LCTA database to reflect bird species characteristic of their installation and region, and
- 3. Allow the simple conversion of LCTA codes to the more universally recognized Bird Banding Laboratory Alpha codes and American Ornithologists' Union (AOU) numbers, and vice versa.

Approach

Information for this database was derived from a variety of sources that included bird field guides (Peterson 1980, 1990), encyclopedias (Terres 1987), and field handbooks (American Ornithologists' Union 1983; Ehrlich, Dobkin, and Wheye 1988). Data quality checks were initiated after species-attribute information had been incorporated to ensure agreement among the various sources. A limited number of new species codes were developed by USACERL to represent species not recognized either by USACERL (Kowalski and Whitworth 1991), the Bird Banding Laboratory (Canadian Fish and Wildlife Service and the U.S. Fish and Wildlife Service 1991), or the American Ornithologists' Union (1983).

Scope

This report describes an LCTA database update that provides selected ecological attributes of 676 bird species occurring within the continental United States. Ecological attributes for each species includes: neotropical status, nest location, nest type, food type, foraging substrate, foraging technique, and general habitat type.

Mode of Technology Transfer

This report is intended to assist natural resources personnel in customizing and updating their LCTA bird database, thus permitting a greater range of potential analyses and facilitating the interpretation of their LCTA bird data. The database update may also be incorporated into future versions of the automated LCTA frontend program and linked to additional databases. This report represents one in a series of user-friendly reports documenting the utility, limitations, and potential applications of LCTA data (Price at al. 1995; Anderson et al. 1995; Rice, Demarais, and Hansen 1997; Anderson, Guertin, and Price 1996; Whitworth and Hill 1997).

An electronic database containing all guild information and the macro can be obtained from USACERL. For further information about the program, contact the authors at 1-800-USA-CERL, or write to USACERL, Attn: LL-N, P.O. Box

9005, Champaign, IL 61826-9005. Use of the macro requires Microsoft Excel 97 or newer version.

Citing manufacturer and software names is not intended to imply endorsement by the Department of Defense or the U.S. Army.

2 Using the Macro

After installing the file, open Microsoft® Excel and select
bird_db.xls>. Refer to the appropriate Microsoft® Office 97 documentation for further details on enabling and using macros. See the Appendix for standard guild information.

Upon initializing the macro, a dialog box prompts you to <Overwrite existing output data?>. By answering <Yes>, any current data within the Output sheet will be lost. By answering <No>, additions and corrections will simply be appended to existing output data.

The second dialog box prompts you to <Enter code type (LCTA, ALPHA, AOU)>. These codes are based on either the Land Condition Trend Analysis (LCTA) program, the Bird Banding Laboratory (Alpha), or the American Ornithologist's Union (AOU).

The third dialog box prompts you to <Enter bird species code>. As you enter each code and press <RETURN>, data is pulled from the bird database and inserted into the Output sheet. Codes that are entered incorrectly, or those that do not correspond to a species within the database, will be flagged as **Code Not Found**. Do not worry about duplicate or invalid codes at this point; they will be corrected later. Press <RETURN> on an empty field when all applicable codes have been entered.

The fourth dialog box prompts you to <Enter sorting criteria>. Output data can be sorted according to LCTA code, ALPHA code, AOU number, common name, or scientific name. Duplicate codes are also removed at this point. You can delete rows that show **Code Not Found** by simply deleting the rows. You can remove these codes at any time.

The fifth dialog box then prompts you to <Save the data?>. By answering <Yes>, you can save the output to a specified directory or subdirectory. By answering <No>, new output data will not be saved. At this point, if you need to correct or verify certain codes, or add species, simply rerun the macro. The macro will then loop back to the initial dialog box and prompt to <Overwrite existing output data?>. If you are simply editing codes or adding new codes, answer <No>.

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Continue rerunning the macro until all species have been included, and all errors identified and corrected.

Now, with the installation-specific guild summaries for each species, verify that all species that occur on the installation have in fact been included in the output file. When all verifications are completed, go back and modify the guild association characteristics for each species. Many species occupy various guilds in different parts of the country, so stated representations for every species may not be appropriate for your installation. Modifying guild characteristics to fit local conditions will make data analysis and interpretation more precise.

3 Survey Methodology

LCTA Bird Survey Overview

To place guild-based avian summaries in the proper context and define the limitations of the data, it is important to at least present a brief overview of field survey methods. For complete information on LCTA methodologies, refer to the U.S. Army Land Condition Trend Analysis (LCTA) Plot Inventory Field Methods Technical Report (Tazik et al. 1992). Bird surveys are conducted during the morning (0 to 4 hrs post sunrise) on a random subsample of all LCTA core plots by using a modified point-count technique. Under typical circumstances, the total number of core plots sampled is 60. Each plot is surveyed at least once. Initial implementation guidance suggested an evening survey be considered as well (Tazik et al. 1992). Table 1 identifies the three segments constituting a valid plot survey. Briefly, an observer(s) slowly walks the 100-m transect in 6 minutes and records all birds seen and heard within 100-m of the plot (Line Out). Upon reaching the end of the transect the observer stops and for 8 minutes records all birds seen and heard within 100-m (End Point). observer then walks back to the starting point, again recording all birds seen and heard within 100-m of the plot (Line In). The maximum number of birds exhibiting breeding behavior are totaled by species (MAX Pair, Table 2). Mated status for each individual is described in Table 3. Species observed outside the plot boundaries, migrating overhead, and before/after the official survey times are also recorded on the standard LCTA Bird Survey Data Form (Table 2) within the "Others" column.

For each species, common name, LCTA species code, mated status, and total number of individuals are recorded within each segment of the survey (Table 2). Species documented within the "Others" column should only be used in installation checklists and should not be included in statistical analyses since they did not occur within the designated LCTA plot boundary. The "Others" category represents observations of species outside the plot boundaries, such as migratory birds and raptors, and includes those species observed while driving to and from plots.

Upon completing all bird surveys within a given field season, the data is then entered into a standardized electronic database. The format of the database has

recently been revised (Table 4) by researchers at USACERL to allow installation personnel the advantage of being able to sort individual occurrences (e.g., by mated status or measurement point).

Table 1. LCTA measure point code with short description.

Measure Point Code	Line Segment
LO	Line Out
EP	End Point
LI	Line In
С	All ages and genders of species outside
•	the plot boundary were totaled and entered
	as one observation

Table 2. Completed LCTA bird survey data form, USMA, West Point, NY.

Installation\	West Point	_ LCTA Plot Nu	ımber <u>9</u>	Observer	T. Miller
Date <u>5/29/9</u>	93 Start	ing time <u>1902</u>	_ AM PM	(circle one)	
Cloud Cover ((%) <u>10</u>	Wind 10-15	Temp (C°)_	<u> 16</u>	

Number of birds Observed Inside the Plot Limits

Common Name	Species Code	Line Out (6 min)	End Point (8 min)	Line In (6 min)	Others*	Max Pair
R.W. Blackbird	AGPH	1	1, 1F			2
Ovenbird	SEAU	1				1
E. Kingbird	TYTY	1				1
A. Robin	TUMI	1	1			2
N. Flicker	COAU	1U				0
Song Sparrow	MEME		1 Pr			1
R.S. Towhee	PIER			1		1
R.B. Woodpecker	MECA			1		1
N. Oriole	ICGA				1	0
R.B. Grosbeak	PHLU		1			1

^{*} This category includes species observed outside the plot limits, and flyovers of birds not using the plot.

Table 3. LCTA mated status code and description.

Mated Status Code	Mated Status
*	Singing Male
PR	Adult male/female
M	Nonsinging male
F	Female only
U	Unknown sex and age
Υ	Young of the year
FL.	Flock
С	All statuses were combined
NR	Not recorded

Table 4. Representative spreadsheet within the USACERL LCTA bird database.

Instalid	Plotid	Recdate	Vertid	Period	Num	Flyovers	Mated Status	Measure Point
WES	9	5/30/93	AGPH	AM	4	N	*	LO
WES	9	5/30/93	AISP	AM	1	N	*	EP
WES	9	5/30/93	BOLE	AM	• 1	N	* .	EP
WES	9	5/30/93	BUJA	AM	1	N	U	LO
WES	9	5/30/93	COAU	AM	1	Υ	*	С
WES	9	5/30/93	CYCR	AM	1	N	*	LO
WES	9	5/30/93	HYMU	AM	1	Υ	*	С
WES	9	5/30/93	ICGA	AM	1	Υ	*	C
WES	9.	5/30/93	MEÇA	AM	1	Υ	*	C-
WES	9	5/30/93	MEGE	AM	1	N	*	EP
WES	9	5/30/93	MEME	AM	1	N	*	EP
WES	9	5/30/93	MNVA	AM	1	N	*	LO
WES	9	5/30/93	PHLU	AM	1	N .	*	LO
WES	9	5/30/93	TYTY	AM	2	N	PR	EP
WES	9	5/30/93	VIFL	AM	1	N	*	LO
WES	9	5/30/93	VIOL	AM	1	N	*	LO
WES	9	5/29/93	AGPH	PM	1	N	*	LO
WES	9	5/29/93	AGPH	PM	1	N	* .	EP
WES	9	5/29/93	AGPH	PM	1	N	F	EP
WES	9	5/29/93	COAU	PM	1	N	U	LO
WES	9	5/29/93	ICGA	PM	1	Υ	• .	С
WES	9	5/29/93	MECA	PM	1	N	*	LI
WES	9	5/29/93	MEME	PM	2	N	PR	EP
WES	9	5/29/93	PHLU	PM	1	N	*	EP
WES	9	5/29/93	PIER	PM	1	N	*	Li
WES	9	5/29/93	SEAU	ΡM	1	N	*	LO
WES	9	5/29/93	TUMI	PM	1	N	*	EP
WES	9	5/29/93	TUMI	PM	1	N	*	LO
WES	9	5/29/93	TYTY	PM	1	N	*	LO

4 Database Characteristics

Vernacular and Scientific Names

Vertebrates of the United States, the U.S. Territories, and Canada (hereafter called Checklist of Vertebrates, Banks, McDiarmid, and Gardner 1987). The 1987 checklist includes a national list of standard vertebrate species names that is accurate and up-to-date, as of 1985. However, with the checklist being more than 10 years old, many scientific names may have changed. Also, depending on taxonomic characteristics, certain individuals and organizations lump species while splitting others. For example, the Northern Flicker is often recognized as one unique species by some researchers while others split it into two unique species: the Yellow-shafted Flicker and the Red-shafted Flicker. Refer to Table 5 for additional species that are frequently lumped or split.

Common names are entered in two different formats within the electronic database. The first series of common names is arranged with the last name followed by the first name (e.g., Blackbird, Red-winged). The second series of common names is arranged with the first name followed by the last name (e.g., Red-winged blackbird). Both formats were included within the electronic database so that individuals can opt for either one without having to retype each common name.

Avian Codes

Three sets of organizational avian codes are included in the database to facilitate communication between various organizations and enable comparisons between data sets.

Table 5. Species that are typically lumped or split.

Northern Flicker	Yellow-shafted Flicker Red-shafted Flicker
Snow Goose	Blue Goose Snow Goose
Brant	Atlantic Brant Black Brant
Tricolored Blackbird	Tawny-shouldered Blackbird Yellow-shouldered Blackbird
Scott's Oriole	Black-vented Oriole Black-cowled Oriole
Northern Oriole	Baltimore Oriole Bullock's Oriole
Rosy Finch	Gray-crowned Rosy Finch Black Rosy Finch Black-capped Rosy Finch
Dark-eyed Junco	Slate-colored Junco Oregon Junco Gray-headed Junco White-winged Junco
Yellow-rumped Warbler	Myrtle Warbler Audubon's Warbler
Palm Warbler	Western Palm Warbler Yellow Palm Warbler
Tufted Titmouse	Eastern Titmouse Black-crested Titmouse
Bushtit	Common Bushtit Black-eared Bushtit

LCTA Codes

LCTA wildlife codes were established in 1991 by USACERL researchers (Kowalski and Whitworth 1991) and based on scientific names from the *Checklist of Vertebrates* (Banks, McDiarmid, and Gardner 1987). Each code consists of the first two letters of the genus and the first two letters of the specific epithet. To eliminate duplication, numerical values are added to similar four-letter codes (e.g., SICA1 and SICA2). However, a potential problem with using numerical values is that many observers find them difficult to remember and occasionally may enter the wrong one. Unfortunately, a code entered incorrectly may not

necessarily show up as an error. Therefore, it is desirabile for a qualified field biologist to input and/or check plot data. For example, if an observer records an eastern wood pewee (COVII) but fails to write the "1" on the suffix, the result is not a illegitimate code (with an error message) but represents another species, the northern bobwhite (COVI). In some areas both species can occur together, making this error more difficult to detect. This potential problem can be minimized by the use of experienced field personnel. Alternatively, an installation may want to consider using a more intuitive method such as the more widely accepted AOU Codes (American Ornithologists' Union 1983), converting back to LCTA codes when necessary.

Alpha Codes

Alpha codes, developed by the Bird Banding Laboratory, consist of a four-letter combination composed of the common name (e.g., BAEA [Bald Eagle] and RWBL [Red-winged Blackbird]: Canadian Fish and Wildlife Service and U.S. Fish and Wildlife Service 1991). Potential problems include: (1) field biologists who devise individual or entire sets of alpha codes instead of following accepted guidelines or established codes, (2) species that do not have an alpha code (e.g., game species like quail, pheasant, turkey, etc.), and (3) common names that vary between different localities. Interestingly, 36 species included in the database did not have a designated alpha code. Therefore, to provide some consistency and completeness, USACERL developed codes for the 36 undesignated species, marking each with an asterisk (*).

AOU Codes

AOU codes, established by the American Ornithologists' Union in the late 1800s, are numerical codes consisting of four numbers (American Ornithologists' Union 1983). Since the AOU checklist is widely used as an official, or semi-official reference, little change in taxonomic concepts has been implemented, unless widely accepted based on published evidence.

Guild Associations

Information within this section was derived primarily from the 1988 *Birder's Handbook* (Ehrlich, Dobkin, and Wheye 1988).

Many species can substitute or switch nest location, nest type, diet, foraging substrate, foraging technique, and habitat type; therefore, ecological guild-based attributes for some species may not be appropriate in every locality. Some

species are "specialists" and associate with a single guild, whereas other species are "generalists" and associate with multiple guilds. For example, a species may frequent multiple habitats, consume a variety of foods, construct a nest in a variety of locations, but builds only one type of nest. Depending on the species and geographic area, some guild data will likely have to be modified to fit local conditions. The appendix contains standard guild information.

Neotropical Migrant Status

The neotropical bird classification system listed below (Partners in Flight 1991) has been included in the database to help installation personnel become more familiar with migratory species. The 676 bird species that are currently listed in the database are divided as follows:

<u>Class A</u> - 141 species; Species that breed in North America and spend their nonbreeding period primarily south of the United States.

<u>Class B</u> - 71 species; Species that breed and winter extensively in North America, but some populations winter south of the United States.

<u>Class C</u> - 34 species; Species whose breeding range is primarily south of the U.S./Mexico border and enters the United States along the Rio Grande Valley.

<u>Class D</u> - 5 species; Species whose breeding range is restricted to the Florida Peninsula within the United States, and withdraws from Florida during the nonbreeding season.

<u>Class R</u> - 425 species; Species that breed and winter exclusively in the United States (resident species).

Class A and B neotropical migrant species are probably most vulnerable to habitat alterations since they spend their nonbreeding period south of the United States, and migrate across several environments to reach their breeding grounds. Class C and Class D neotropical migrant species are also important but typically breed south of the United States. Class R (resident species) do not migrate but are still being threatened by alteration and degradation of their habitats beyond the point of use by a particular species within the United States.

Nest Location

Nest locations have been generalized for most species; however, some specialized nest locations have been included for those species that will nest only in certain areas. Thirteen nest locations are described below:

<u>Bank</u> - Includes river banks, areas of soft soil on steep island slopes, etc., where nest burrows are excavated.

Cactus - Includes nests built in cholla and yucca trees.

Cave - Nest built within a cave.

<u>Cliff</u> - Includes nests situated in natural crevices or on ledges of cliffs typically offering a commanding view of a defensible position, and sometimes chosen when no suitable trees are available.

<u>Floating</u> - Includes nests floating on water and usually anchored to live emergent or submerged vegetation.

<u>Ground</u> - Includes nests placed among the roots, or in niches among the roots of fallen trees, among tules and reeds (in marshes), among grasses, on bare rock, or simply scraped in the dirt or sand.

MMS (Man-made Structure) - Includes nests placed among any man-made structure (bridges, barn, etc.).

Reed - Nest built within and attached to reeds.

<u>Shrub</u> - Includes nests placed within any multi-stemmed woody plant that does not have a distinct single trunk extending several feet between the ground and the lowest branching point.

<u>Snag</u> - Includes nests placed in a standing dead tree. Also used for species that use cavities in dead and live trees more/less indiscriminately.

<u>Vine Tangle</u> - Includes nests placed in vines, brambles, brush piles, etc.

<u>Woody Lower Canopy</u> - Includes nests placed in the lower canopy of deciduous or coniferous trees.

<u>Woody Upper Canopy</u> - Includes nests placed in the upper canopy of deciduous or coniferous trees.

Nest Type

Birds of the same species typically construct similar nests; however, the materials available often differ from area to area. Thirteen nest types are characterized below:

<u>Abandoned</u> - Nest is built in an abandoned nest previously built by another species.

<u>Burrow</u> - Eggs placed in a chamber at the end of a tunnel. Tunnels are either excavated by the bird (most kingfishers, puffins, storm petrels) or usurped from small mammals, especially ground squirrels and prairie dogs.

<u>Cavity</u> - Eggs placed in a cavity that has been either excavated (woodpeckers) or in a natural cavity found in a dead or dying tree. Sometimes a cup or other structure is built within.

<u>Crevice</u> - Eggs placed in a crack in the face of a cliff, between boulders, in a manmade structure, etc.

<u>Cup</u> - A sometimes bulky, but always deep depression, with a hemispherical inside and a rim height several times the diameter of the eggs.

None - No nest is constructed. Eggs are typically layed on ground with nothing to protect them.

Oven - Oven-shaped (roofed or arched) nest on the ground.

<u>Parasitic</u> - No nest is constructed. Eggs are deposited in the nest of another species.

Pendant - An elongate saclike nest suspended from a branch.

<u>Platform</u> - A structure in a tree, on a cliff, or providing a dry place above marshy ground or water, usually big enough for the bird to land on, with or without a distinct depression to hold the eggs. Typical of many raptors and wetland birds.

Saucer - A shallow cup with the height of the rim not more than twice the diameter of the eggs. Also a flattened nest of pliable vegetation as in some wetland birds.

Scrape - A simple depression usually with a rim sufficient to prevent eggs from rolling away. Those of many duck species are almost bowl-shaped. Occasionally with lining added.

<u>Sphere</u> - Globe-shaped or ball-shaped. A roughly round structure, fully enclosed except a small opening usually on the side or at one end.

Food Type

Diet is a category that is often difficult to quantify. Species rely on a variety of food types throughout the year and many species have an entirely different winter diet than that of the summer and spring. Therefore, inferences that follow need to be looked at as generalizations and will not represent the diet of a particular species in every geographic area within all seasons. Thirteen food items are listed below:

<u>Aquatic Inverts</u> - May include aquatic insects, crayfish, shrimp, snails, bivalves, etc.

Birds - Includes birds and their eggs.

Carrion - Dead and putrefying flesh.

Fish - Includes fish, their fry, and eggs.

Fruit - Includes fruit and berries.

Greens - May include leafy parts of both aquatic and terrestrial plants, and bulbs.

<u>Insects</u> - May include insects, spiders, mites, land snails, slugs, worms, millipedes, sowbugs, etc.

Nectar - The sugar-containing liquid secretion of the nectary of many flowers.

Nuts - A type of fruit with one seed and a hard woody outer layer (e.g., acorns and beechnuts).

Seeds - Includes grains, sunflower seeds, conifer seeds, etc.

<u>Small Mammals</u> - Any animal of the class Mammalia. Includes shrews, ground squirrels, rabbits, but most often rodents.

<u>Small Verts</u> - Includes reptiles (e.g., lizards, snakes) and amphibians (e.g., salamanders, frogs).

Tree Sap - A watery solution that circulates through a plant's vascular system.

Foraging Substrate

Foraging substrate has been included to aide in making larger scale generalizations with regard to feeding techniques. Five substrates have been identified:

<u>Air</u> - Foraging done in the air. (Includes foraging techniques such as: Aerial Foraging, Aerial Pursuit, Hawker, Hover & Pick, Hover Gleaner, and Piracy.).

Bark - Foraging done primarily on the bark of trees. (Includes: Bark Gleaner.)

<u>Foliage</u> - Foraging done primarily on foliage. (Includes: Foliage Browser and Foliage Gleaner.)

<u>Ground</u> - Foraging done primarily on the ground. (Includes: Digging, Ground Gleaner, High Patrol, Hover & Pounce, Low Patrol, Piracy, Scavenger and Swooper.)

<u>Water</u> - Foraging done primarily on or in the water. (Includes: Ambusher, Dabbler, High Dives, Prober, Skimmer, Surface Dips, and Surface Dives.)

Foraging Technique

Many birds that eat both seeds and insects will take proportionally more insects when available. Therefore, geographic area and availability of food items will have a major effect on items consumed. In addition, both primary and secondary foraging techniques may be used to obtain primary food items. Twenty-two foraging techniques have been identified:

Aerial Foraging - Capturing flying insects while in a prolonged, continuous flight.

<u>Aerial Pursuit</u> - Chasing or catching birds in midair, stooping (dropping on flying birds from above, killing them in midair with a blow from the talons), or snatching them from their perches.

Ambusher - Hunting by standing motionless on a bank or in the water and spearing fish, frogs, etc.

<u>Bark Gleaner</u> - Gleaning from tree trunks and branches. Includes excavating and drilling into bark.

<u>Dabbler</u> - Floating on the surface in shallow water, pivoting headfirst downward while raising hind-quarters above the water to reach submerged plants or animals on or near the substrate.

<u>Digging</u> - Includes scratching at the surface and digging for bulbs, insects, etc.

<u>Foliage Browser</u> - Browsing tender shoots, twigs, and leaves of trees and shrubs for food.

<u>Foliage Gleaner</u> - Gleaning from foliage and occasionally from branches. Take invertebrates and/or fruit from the vegetation, not from the ground surface.

Ground Gleaner - Picking up items from the surface of soil, turf, sand, etc.

Hawker - Sallies from perch on short flights to capture flying insects.

<u>High Dives</u> - Dropping from a height into the water, usually to catch fish, but sometimes to take waterfowl and other prey.

High Patrol - Soaring at high altitudes in search of carrion or prey.

Hover & Pick - Hovering above a particular substrate, then snatching or picking up the food item.

Hover & Pounce - Hovering before swooping or dropping down on prey.

<u>Hover Gleaner</u> - Taking nectar, insects, or berries from plants above the ground while hovering.

Low Patrol - Seeking prey in a low searching flight.

Piracy - Taking prey from another bird.

<u>Scavenger</u> - Feeding on carrion, refuse, or material left unconsumed by other organisms:

Skimmer - Flying low over the water and snatching up fish or aquatic invertebrates.

<u>Surface Dips</u> - Taking food from the water's surface or from just below while floating or swimming on the surface.

<u>Surface Dives</u> - Floating and then diving under water using feet and/or wings in search of prey.

<u>Swooper</u> - Snatching prey from the ground in talons after a gliding descent from perch with wings spread.

General Habitat

General habitat is another category that is often quite difficult to define. Many species frequent several habitat types and are not associated with just one. Therefore, general habitat classifications within the database should be viewed with caution. Fifteen habitat types are listed below:

Coastal - An area of land near the shore (Pacific and Atlantic Coast).

<u>Cropland</u> - Includes lands that have been planted with grain or sorghum, disked fields, or anything else pertaining to agricultural practices.

<u>Desert</u> - A terrestrial environment characterized by poor soil, climatic extremes of high and low temperatures, and low rainfall.

<u>Forest</u> - An extensive concentration of trees and related vegetation. Includes sparsely wooded areas, densely wooded areas, and pinon-juniper associations.

Forest Edge - The transitional area where a forest ends and another distinct habitat begins.

Freshwater - Includes areas such as lakes, ponds, rivers, and streams.

<u>Grassland</u> - An area of land on which the natural dominant plant forms are grasses and forbs. Areas with scattered trees and/or snags are included in this community type.

<u>Pelagic</u> - Living or occurring in the open sea for a substantial portion of their lives.

<u>Riparian</u> - An area located along the bank of a natural watercourse (as a river) or sometimes of a lake or tidewater.

Rocky Slope - An area abounding in or consisting primarily of rocks (mountains, cliffs, talus slopes, etc.).

Shoreline - The strip of land where a body of water and the shore meet.

<u>Shrubland</u> - An area of land on which the natural dominant plant forms are shrubs (a low, usually several-stemmed woody plant).

<u>Swamp/Marsh</u> - A wet, spongy land, saturated and sometimes partially or intermittently covered with water. Also includes tracts of soft, wet land, typically characterized with grasses and cattails.

<u>Tundra</u> - A treeless plain that is characteristic of arctic and subarctic regions, and consists of black mucky soil with a permanently frozen subsoil, and supports a dense growth of often conspicuously flowering dwarf herbs.

<u>Urban</u> - Any area habituated with people. Includes cities, towns, suburbs, and possibly farm houses, etc.

5 Summary

Information within this report will provide land managers the capability to: (1) generate ecological guild-based summaries with no additional fieldwork, (2) identify specific groups of birds most likely to be impacted by a spacially descrete training impact, (3) customize their database by adjusting individual attributes for species specific to their installation, and (4) conveniently cross reference, or simply convert, all LCTA species codes to more globally recognized American Ornithological Union "AOU numbers" or the Bird Banding Laboratory "Alpha codes".

The LCTA bird database provides selected ecological attributes of 676 species occurring within the continental United States. However, LCTA avian codes were based on the 1987 *Checklist of Vertebrates*, which encompasses 1,098 bird species, and covers a wider geographical area. Therefore, depending on installation locality, species range, and occurrence of infrequently observed species, additional species may need to be incorporated into your local database.

Each species within the database has information pertaining to neotropical status, nest location, nest type, diet, foraging substrate, foraging technique, and general habitat. However, since many species occupy various guilds in different parts of the country, stated representations for each species may not accurately portray the most applicable data. Therefore, after all codes have been entered into the avian macro, verified, and an installation-specific database developed, personnel at each installation should go through the guild data for their particular species and make appropriate modifications.

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Appendix: Guild Information

USACERL TR 98/100

COMMON NAME	SCIENTIFIC NAME	LCTA CODE	ALPHA CODE	AOU#	NEO STAT	NEST LOCATION
Albatross, Black-footed	Diomedea nigripes	DINI	BFAL	0810	R	Ground
Albatross, Laysan	Diomedea immutabilis	DIIM	LAAL	0821	R	Ground
Anhinga	Anhinga anhinga	ANAN	ANHI	1180	R	Shrub, Woody Lower Canopy
Ani, Groove-billed	Crotophaga sulcirostris	CRSU	GBAN	3840	С	Woody Lower Canopy
Ani, Smooth-billed	Crotophaga ani	CRAN	SBAN	3830	R	Woody Lower Canopy
Auklet, Cassin's	Ptychoramphus aleuticus	PTAL	CAAU	0160	R	Ground, Cliff
Auklet, Crested	Aethia cristatella	AECR	CRAU	0180	R	Ground, Cliff
Auklet, Least	Aethia pusilla	AEPU	LEAU	0200	R	Ground, Cliff
Auklet, Parakeet	Cyclorrhynchus psittacula	CYPS	PAAU	0170	R	Ground, Cliff
Auklet, Rhinoceros	Cerorhinca monocerata	CEMO	RHAU	0150	R	Ground
Auklet, Whiskered	Aethia pygmaea	AEPY	WHAU	0190	R	Ground
Avocet, American	Recurvirostra americana	REAM	AMAV	2250	R	Ground
	Pachyramphus aglaiae	PAAG	RTBE	4411	С	Woody Upper Canopy
Becard, Rose-throated	Botaurus lentiginosus	BOLE	AMBI	1900	R	Ground
Bittern, American	Ixobrychus exilis	IXEX	LEBI	1910	R	Ground, Shrub
Bittern, Least Blackbird, Brewer's	Euphagus cyanocephalus	EUCY	BRBL	5100	В	Woody Upper Canopy, Ground
Blackbird, Red-winged	Agelaius phoeniceus	AGPH	RWBL	4980	В	Reed, Shrub
Blackbird, Rusty	Euphagus carolinus	EUCA1	RUBL	5090	R	Woody Lower Canopy, Shrub
Blackbird, Tricolored	Agelaius tricolor	AGTR	TRBL	5000	R	Reed, Shrub
Blackbird, Yellow-headed	Xanthocephalus xanthocephalus	XAXA	YHBL	4970	A	Reed, Shrub
Bluebird, Eastern	Sialia sialis	SISI	EABL	7660	В	Snag, Woody Upper Canopy
Bluebird, Mountain	Sialia currucoides	SICU	MOBL	7680	В	Snag, Woody Upper Canopy
Bluebird, Western	Sialia mexicana	SIME	WEBL	7670	В	Snag, Woody Upper Canopy
Bluethroat	Luscinia svecica	LUSV	BLUE	7640	R	Ground
Bobolink	Dolichonyx oryzivorus	DOOR	вово	4940	Α	Ground
Bobwhite, Northern	Colinus virginianus	COVI	NOBO*	2890	R	Ground
Booby, Blue-footed	Sula nebouxii	SUNE	BFBO	1141	R	Ground
Booby, Brown	Sula leucogaster	SULE	BRBO	1150	R	Ground
Booby, Masked	Sula dactylatra	SUDA	MABO	1140	R	Ground
Booby, Red-footed	Sula sula	SUSU	RFBO	1160	R	Woody Upper Canopy, Ground
Brant	Branta bernicla	BRBE	BRAN*	1730	R	Ground
Bufflehead	Bucephala albeola	BUAL	BUFF	1530	R	Snag, Bank
Bunting, Indigo	Passerina cyanea	PACY	INBU	5980	Α	Shrub, Woody Lower Canopy
Bunting, Lark	Calamospiza melanocorys	CAME	LARB	6050	A	Ground
Bunting, Lazuli	Passerina amoena	PAAM1	LASB	5990	Α	Shrub, Woody Lower Canopy
Bunting, McKay's	Plectrophenax hyperboreus	PLHY	MKBU	5350	R	Ground, Cliff
Bunting, Painted	Passerina ciris	PACI1	PABU	6010	Α	Shrub, Woody Lower Canopy
Bunting, Snow	Plectrophenax nivalis	PLNI	SNBU	5340	R	Ground, Cliff
Bunting, Varied	Passerina versicolor	PAVE	VABU	6000	С	Shrub, Woody Lower Canopy
Bushtit	Psaltriparus minimus	PSMI	BUTI*	7430	R	Woody Lower Canopy, Shrub
Canvasback	Aythya valisineria	AYVA	CANV	1470	R	Reed, Floating
Caracara, Crested	Polyborus plancus	POPL	CRCA	3620	R	Woody Upper Canopy, Shrub
Cardinal, Northern	Cardinalis cardinalis	CACA4	NOCA	5930	R	Shrub, Woody Lower Canopy
Catbird, Gray	Dumetella carolinensis	DUCA	GRCA	7040	Α	Shrub, Woody Lower Canopy
Chachalaca, Plain	Ortalis vetula	ORVE	PLCH*	3110	R	Woody Lower Canopy
Chat, Yellow-breasted	Icteria virens	ICVI	YBCH	6830	Α	Shrub, Woody Lower Canopy
Chickadee, Black-capped	Parus atricapillus	PAAT	вссн	7350	R	Woody Lower Canopy, Snag
Chickadee, Boreal	Parus hudsonicus	PAHU	восн	7400	R	Woody Lower Canopy, Snag

LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
DINI	Scrape	Fish, Aquatic Inverts	Water	Scavenger, Ground Gleaner	Pelagic
DIIM	Scrape	Aquatic Inverts	Water	Ground Gleaner	Pelagic
ANAN	Platform	Fish, Aquatic Inverts	Water	Surface Dives	Freshwater, Swamp/Marsh
CRSU	Cup	Insects, Small Verts	Ground	Ground Gleaner	Shrubland, Swamp/Marsh
CRAN	Cup	Insects, Small Verts	Ground	Ground Gleaner	Shrubland, Grassland
PTAL	Burrow, Crevice	Aquatic Inverts	Water -	Surface Dives	Coastal, Pelagic
AECR	Crevice	Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
AEPU	Crevice	Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
CYPS	Crevice	Aquatic Inverts, Fish	Water	Surface Dives	Coastal, Pelagic
CEMO	Burrow	Fish, Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
AEPY	Crevice	Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
REAM	Scrape	Aquatic Inverts, Insects	Water	Prober	Swamp/Marsh, Freshwater
PAAG	Sphere	Insects, Fruit	Air	Hover Gleaner, Hawker	Forest, Shrubland
BOLE	Platform	Fish, Aquatic Inverts	Water, Ground	Ambusher, Ground Gleaner	Swamp/Marsh
IXEX	Platform	Fish, Aquatic Inverts	Water, Ground	Ambusher, Ground Gleaner	Swamp/Marsh
EUCY	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland, Riparian
AGPH	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Swamp/Marsh, Riparian
EUCA1	Cup	Insects, Seeds	Ground	Ground Gleaner	Swamp/Marsh, Riparian
AGTR	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Swamp/Marsh, Cropland
XAXA	Cup	Insects, Seeds	Ground, Air	Ground Gleaner, Hawker	Swamp/Marsh
SISI	Cavity	Insects, Fruit	Air, Foliage	Hawker, Foliage Gleaner	Forest Edge, Grassland
SICU	Cavity	Insects, Fruit	Ground	Swooper, Hover & Pounce	Forest, Grassland
SIME	Cavity	Insects, Fruit	Air, Foliage	Hawker, Foliage Gleaner	Riparian, Grassland
LUSV	Cup	Insects, Seeds	Ground	Ground Gleaner	Tundra, Rocky Slope
DOOR	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Grassland, Swamp/Marsh
COVI	Scrape	Greens, Seeds	Ground	Ground Gleaner	Forest Edge, Shrubland
SUNE	Scrape	Fish	Water	High Dives	Coastal, Pelagic
SULE	Scrape	Fish	Water	High Dives	Coastal, Pelagic
SUDA	Scrape	Fish	Water	High Dives	Coastal, Pelagic
SUSU	Platform, Scrape	Fish	Water	High Dives, Skimmer	Coastal, Pelagic
BRBE	Scrape	Greens, Aquatic Inverts	Water	Surface Dips, Dabbler	Tundra, Shoreline
BUAL	Cavity, Burrow	Aquatic Inverts	Water	Surface Dives	Freshwater, Forest
PACY	Cup	Insects, Seeds	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Forest Edge, Shrubland
CAME	Cup	Insects, Seeds	Ground, Air	Ground Gleaner, Hawker	Grassland, Shrubland
PAAM1	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland, Riparian
PLHY	Crevice, Cavity	Insects, Seeds	Ground	Ground Gleaner	Shoreline, Tundra
PACI1	Cup	Seeds, Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland, Riparian
PLNI	Crevice, Cavity	Insects, Seeds	Ground	Ground Gleaner	Shoreline, Tundra
PAVE	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland
PSMI	Pendant	Insects, Seeds	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest, Shrubland
AYVA	Cup	Greens, Seeds	Water	Surface Dives, Prober	Swamp/Marsh, Freshwater
POPL	Platform	Carrion, Small Verts	Ground	Scavenger, Ground Gleaner	Shrubland
CACA4	Cup	Insects, Seeds	Ground	Ground Gleaner	Shrubland, Urban
DUCA	Cup	Insects, Fruit	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland, Riparian
ORVE	Saucer	Fruit, Insects	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Riparjan, Forest Edge
ICVI	Cup	Insects, Fruit	Foliage	Foliage Gleaner	Shrubland, Riparian
PAAT	Cavity	Insects, Seeds	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest, Riparian
PAHU	Cavity	Insects, Seeds	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest

COMMON NAME	SCIENTIFIC NAME	LCTA CODE	ALPHA CODE	AOU#	NEO STAT	NEST LOCATION
Chickadee, Carolina	Parus carolinensis	PACA2	CACH	7360	R	Woody Lower Canopy, Snag
Chickadee, Chestnut-backed	Parus rufescens	PARU	CBCH	7410	R	Snag, Woody Lower Canopy
Chickadee, Mexican	Parus sclateri	PASC	MECH	7370	R	Snag, Woody Upper Canopy
Chickadee, Mountain	Parus gambeli	PAGA	MOCH	7380	R	Woody Lower Canopy, Snag
Chuck-will's-widow	Caprimulgus carolinensis	CACA3	CWWI	4160	Α	Ground
Chukar	Alectoris chukar	ALCH	CHUK*	2882	R	Ground
Condor, California	Gymnogyps californianus	GYCA1	CALC	3240	R	Cliff
Coot, American	Fulica americana	FUAM	AMCO	2210	R	Floating
Cormorant, Brandt's	Phalacrocorax penicillatus	PHPE1	BRAC	1220	R	Cliff, Ground
Cormorant, Double-crested	Phalacrocorax auritus	PHAU	DCCO	1200	R	Ground, Woody Upper Canopy
Cormorant, Great	Phalacrocorax carbo	PHCA	GRCO	1190	R	Cliff, Woody Upper Canopy
Cormorant, Olivaceous	Phalacrocorax olivaceus	PHOL	OLCO	1210	R	Shrub, Woody Lower Canopy
Cormorant, Pelagic	Phalacrocorax pelagicus	PHPE	PECO	1230	R	Cliff, Ground
Cormorant, Red-faced	Phalacrocorax urile	PHUR		1240	R	Cliff
Cowbird, Bronzed	Molothrus aeneus	MOAE	BROC	4960	C	Woody Upper Canopy, Shrub
•	Molothrus ater	MOAT	BHCO	4950	В	Woody Upper Canopy, Shrub
Cowbird, Brown-headed	Grus canadensis	GRCA1	SACR	2060	R	Ground
Crane, Sandhill	Grus americana	GRAM	WHCR	2040	R	Ground
rane, Whooping	Certhia americana	CEAM	BRCR	7260	В	Woody Upper Canopy
Greeper, Brown	Loxia curvirostra	LOCU2	RECR	5210	R	Woody Upper Canopy
rossbill, Red		LOCUE1	WWCR	5220	R	Woody Upper Canopy
rossbill, White-winged	Loxia leucoptera	COBR1	AMCR	4880	R	Woody Upper Canopy, Shrub
row, American	Corvus brachyrhynchos	COOS	FICR	4900	R	Woody Upper Canopy, Shrub
row, Fish	Corvus ossifragus	COCA2	NOCR	4890	R	Woody Upper Canopy, Shrub
row, Northwestern	Corvus caurinus Coccyzus erythropthalmus	COER	BBCU	3880	Α	Woody Lower Canopy, Shrub
uckoo, Black-billed		COMI	MACU	3860	D	Woody Lower Canopy, Shrub
uckoo, Mangrove	Coccyzus minor Coccyzus americanus	COAM	YBCU	3870	A	Woody Lower Canopy, Shrub
uckoo, Yellow-billed	Numenius tahitiensis	NUTA	BTCU	2680	R	Ground
urlew, Bristle-thighed	Numenius tanitiensis Numenius borealis	NUBO	ESCU*	2660	R	Ground
urlew, Eskimo	Numenius boreaiis Numenius americanus	NUAM	LBCU	2640	Α .	Ground
urlew, Long-billed		SPAM	DICK	6040	A	Ground, Shrub
ickcissel	Spiza americana Cinclus mexicanus	CIME	AMDI	7010	R	Cliff, MMS
ipper, American		COPA	COGD	3200	R	Ground, Shrub
ove, Common Ground	Columbina passerina Columbina inca	COIN1	INDO	3210	R	Shrub, Woody Lower Canopy
ove, Inca		ZEMA	MODO	3160	В	Woody Lower Canopy, Ground
ove, Mourning	Zenaida macroura	COLI	RODO*	3131	R	MMS, Cliff
ove, Rock	Columba livia		WTDO	3180	R	Woody Lower Canopy
ove, White-tipped	Leptotila verreauxi	LEVE		3190	C	Woody Lower Canopy
ove, White-winged	Zenaida asiatica	ZEAS	WWDO			Cliff
ovekie	Alle alle	ALAL1	DOVE	0340	R	Ground
owitcher, Long-billed	Limnodromus scolopaceus	LISC	LBDO	2320	R	
owitcher, Short-billed	Limnodromus griseus	LIGR	SBDO	2310	R	Ground
uck, American Black	Anas rubripes	ANRU	ABDU	1330	R	Ground
uck, Black-bellied Whistling	Dendrocygna autumnalis	DEAU1	BBWD	1770	R	Snag, Woody Upper Canopy
uck, Fulvous Whistling	Dendrocygna bicolor	DEBI	FUWD	1780	R	Ground, Woody Lower Canopy
uck, Harlequin	Histrionicus histrionicus	HIHI1	HARD	1550	R	Ground
uck, Masked	Oxyura dominica	OXDO	MADU	1680	R	Ground
uck, Mottled	Anas fulvigula	ANFU	MODU	1340	R	Ground
uck, Ring-necked	Aythya collaris	AYCO	RNDU	1500	R	Ground, Floating

LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
PACA2	Cavity	Insects, Seeds	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest, Riparian
PARU	Cavity	Insects, Seeds	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest
PASC	Cavity	Insects, Seeds	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest
PAGA	Cavity	Insects, Seeds	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest
CACA3	None	Insects, Birds	Air	Aerial Foraging	Forest
ALCH	Scrape	Seeds, Insects	Ground	Ground Gleaner	Grassland, Shrubland
GYCA1	None	Carrion, Fish	Ground	Scavenger, High Patrol	Rocky Slope
FUAM	Platform	Greens, Aquatic Inverts	Water, Ground	Surface Dips, Ground Gleaner	Freshwater, Swamp/Marsh
PHPE1	Saucer	Fish	Water	Surface Dives	Coastal, Pelagic
PHAU	Platform	Fish, Aquatic Inverts	Water	Surface Dives, Surface Dips	Coastal, Freshwater
PHCA	Piatform	Fish, Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
PAHU	Cavity	Insects, Seeds	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest
PACA3	Cavity	Insects, Seeds	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest, Riparian
PHUR	Platform	Fish, Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
MOAE	Parasitic	Insects, Seeds	Ground	Ground Gleaner	Shrubland, Cropland
MOAT	Parasitic	Insects, Seeds	Ground	Ground Gleaner	Forest Edge, Forest
GRCA1	Saucer	Aquatic Inverts, Insects	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh, Freshwater
GRAM	Saucer	Aquatic Inverts, Fish	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh, Freshwater
CEAM	Cup	Insects, Nuts	Bark, Air	Bark Gleaner, Hawker	Forest
LOCU2	Cup	Seeds, Fruit	Foliage .	Foliage Gleaner	Forest
LOLE1	Cup	Seeds	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Forest
COBR1	Cup	Insects, Seeds	Ground	Scavenger, Ground Gleaner	Forest, Riparian
coos	Cup	Aquatic Inverts, Carrion	Ground	Scavenger, Ground Gleaner	Shoreline, Freshwater
COCA2	Cup	Aquatic Inverts, Insects	Ground	Scavenger, Ground Gleaner	Forest, Forest Edge
COER	Platform, Parasitic	Insects, Fish	Foliage	Scavenger, Foliage Gleaner	Forest, Forest Edge
COMI	Platform	Insects, Fruit	Foliage	Foliage Gleaner	Swamp/Marsh, Shrubland
COAM	Platform, Parasitic	Insects	Foliage, Air	Foliage Gleaner, Hover Gleaner	Forest, Riparian
NUTA	Scrape	Fruit, Insects	Ground	Ground Gleaner	Tundra
NUBO	Scrape	Insects, Fruit	Ground	Ground Gleaner, Prober	Tundra, Shoreline
NUAM	Scrape	Insects, Aquatic Inverts	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh, Riparian
SPAM	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland, Cropland
CIME	Oven	Aquatic Inverts, Fish	Water	Prober	Freshwater, Riparian
COPA	Saucer	Seeds, Fruit	Ground	Ground Gleaner	Forest Edge, Urban
COIN1	Saucer	Seeds	Ground	Ground Gleaner	Forest Edge, Shrubland
ZEMA	Saucer	Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest Edge, Cropland
COLI	Saucer	Seeds	Ground	Ground Gleaner	Urban
LEVE	Saucer	Seeds, Fruit	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Riparian, Cropland
ZEAS	Saucer	Seeds, Fruit	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Riparian, Shrubland
ALAL1	Crevice	Aquatic Inverts, Fish	Water	Surface Dives	Coastal, Pelagic
LISC	Scrape	Aquatic Inverts, Insects	Water	Prober	Tundra, Swamp/Marsh
LIGR	Scrape	Aquatic Inverts, Insects	Water	Prober	Tundra, Swamp/Marsh
ANRU	Scrape	Aquatic Inverts, Seeds	Water	Dabbler	Swamp/Marsh, Riparian
DEAU1	Cavity	Seeds	Ground	Ground Gleaner	Swamp/Marsh, Riparian
DEBI	Saucer	Greens, Seeds	Water, Ground	Surface Dips, Ground Gleaner	Swamp/Marsh
HIHI1	Scrape	Aquatic Inverts	Water	Surface Dives, Dabbler	Freshwater, Coastal
OXDO	Scrape	Greens, Insects	Water	Surface Dives	Swamp/Marsh, Freshwater
ANFU	Scrape	Aquatic Inverts, Insects	Water	Dabbler	Swamp/Marsh
AYCO	Scrape	Greens, Aquatic Inverts	Water	Surface Dives	Swamp/Marsh

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COMMON NAME	SCIENTIFIC NAME	LCTA	ALPHA	AOU#		NEST LOCATION
Duels Buddy	Oxyura jamaicensis	CODE OXJA	RUDU	1670	STAT R	Ground
Duck, Ruddy Duck, Tufted	Aythya fuligula	AYFU	TUDU	1491	R	Ground, Bank
Duck, Wood	Aix sponsa	AISP	WODU	1440	R	Snag, MMS
Dunlin	Calidris alpina	CAAL1	DUNL	2430	R	Ground
	Haliaeetus leucocephalus	HALE	BAEA	3520	R	Woody Upper Canopy, Cliff
Eagle, Bald	Aquila chrysaetos	AQCH	GOEA	3490	В	Cliff, Woody Upper Canopy
Eagle, Golden	Haliaeetus albicilla	HAAL	WTEA*	3510	R	Woody Upper Canopy, Cliff
Eagle, White-tailed	Bubulcus ibis	BUIB	CAEG	2001	R	Woody Lower Canopy, Shrub
Egret, Cattle Egret, Great	Casmerodius albus	CAAL2	GREG	1960	R	Woody Upper Canopy, Shrub
•	Egretta rufescens	EGRU	REEG	1980	R	Woody Lower Canopy, Shrub
Egret, Reddish	Egretta thula	EGTH	SNEG	1970	R	Woody Lower Canopy, Shrub
Egret, Snowy	Somateria mollissima	SOMO	COEI	1590	R	Ground
Eider, Common	Somateria spectabilis	SOSP	KIEI	1620	R	Ground
Eider, King	Somateria fischeri	SOFI	SPEI	1580	R	Ground
Eider, Spectacled		POST	STEI	1570	R	Ground
Eider, Steller's	Polysticta stelleri	FAFE	APFA	3590	R	Woody Lower Canopy, Shrub
Falcon, Aplomado	Falco femoralis	FAPE	PEFA	3560	A	Cliff, Woody Upper Canopy
Falcon, Peregrine	Falco peregrinus	FAME	PRFA	3550	В	Cliff, Woody Upper Canopy
Falcon, Prairie	Falco mexicanus	TUPI	FIEL	7612	R	Ground, Woody Lower Canopy
Fieldfare	Turdus pilaris	CACA7	CAFI	5180	В	Woody Upper Canopy
Finch, Cassin's	Carpodacus cassinii	CAME2	HOFI	5190	R	Woody Upper Canopy, Shrub
Finch, House	Carpodacus mexicanus	CAPU1	PUFI	5170	В	Woody Upper Canopy
Finch, Purple	Carpodacus purpureus	LEAR	ROFI*	5240	R	Ground, Cliff
Finch, Rosy	Leucosticte arctoa	PHRU	GREF	1820	R	Ground
Flamingo, Greater	Phoenicopterus ruber	COAU	NOFL*	4120	В	Snag, Woody Lower Canopy
Flicker, Northern	Colaptes auratus	EMVI	ACFL	4650	A	Woody Lower Canopy, Shrub
Flycatcher, Acadian	Empidonax virescens	EMAL	ALFL	4661	A	Shrub, Woody Lower Canopy
Flycatcher, Alder	Empidonax afnorum Myiarchus cinerascens	MYCI	ATFL	4540	A	Woody Lower Canopy
Flycatcher, Ash-throated	Myiarchus tyrannulus	MYTY	BCFL	4530	Ċ	Woody Lower Canopy, Shrub
Flycatcher, Brown-crested	Empidonax fulvifrons	EMFU	BBFL	4700	C	Woody Upper Canopy
Flycatcher, Buff-breasted	Empidonax oberholseri	EMOB	DUFL	4690	A	Shrub, Woody Lower Canopy
Flycatcher, Dusky	Myiarchus tuberculifer	MYTU	DCFL	4550	C	Woody Upper Canopy
Flycatcher, Dusky-capped	Empidonax wrightii	EMWR	GRFL	4691	A	Shrub, Woody Lower Canopy
Flycatcher, Gray	Myiarchus crinitus	MYCR	GCFL	4520	A	Woody Upper Canopy, Snag
Flycatcher, Great-crested	Empidonax hammondii	EMHA	HAFL	4680	A	Woody Upper Canopy
Flycatcher, Hammond's	Empidonax minimus	EMMI1	LEFL	4670	A	Woody Upper Canopy, Shrub
Flycatcher, Least	Contopus borealis	COBO	OSFL	4590	A	Woody Upper Canopy
Flycatcher, Olive-sided	Tyrannus forficatus	TYFO	STFL	4430	A	Woody Upper Canopy, Shrub
Flycatcher, Scissor-tailed Flycatcher, Sulphur-bellied	Myiodynastes luteiventris	MYLU	SBFL	4510	C	Woody Upper Canopy
Flycatcher, Vermilion	Pyrocephalus rubinus	PYRU	VEFL	4710	A	Woody Upper Canopy
Flycatcher, Western	Empidonax difficilis	EMDI	WEFL	4640	R	Woody Lower Canopy, Cliff
•	Empidonax traillii	EMTR	WIFL	4660	Α	Shrub, Woody Lower Canopy
Flycatcher, Willow	Empidonax flaviventris	EMFL	YBFL	4630	A	Ground
Flycatcher, Yellow-bellied	•	FRMA	MAFR	1280	R	Shrub, Woody Lower Canopy
Frigatebird, Magnificent	Fregata magnificens	FUGL	NOFU	0860	R	Cliff, Ground
Fulmar, Northern	Fulmarus glacialis	ANST	GADW	1350	R	Ground
Gadwall	Anas strepera	POMA	PUGA	2180	R	Floating
Gallinule, Purple	Porphyrula martinica	SUBA	NOGA	1170	R	Cliff, Ground
Gannet, Northern	Sula bassanus	SUBA	HOUR	11/0	.,	omi, around

LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
OXJA	Scrape	Aquatic Inverts, Greens	Water	Surface Dives	Swamp/Marsh, Freshwater
AYFU	Burrow	Greens, Insects	Water	Ground Gleaner, Skimmer	Coastal, Freshwater
AISP	Cavity	Aquatic Inverts, Seeds	Water	Dabbler	Swamp/Marsh, Riparian
CAAL1	Scrape	Insects, Seeds	Ground, Water	Ground Gleaner, Prober	Coastal, Tundra
HALE	Platform	Fish, Birds	Water, Ground	High Patrol, Low Patrol	Freshwater, Coastal
AQCH	Platform	Small Mammals, Birds	Ground	High Patrol, Swooper	Grassland, Forest Edge
HAAL	Platform	Fish, Birds	Water, Air	Skimmer, Hawker	Tundra, Coastal
BUIB	Platform	Insects, Small Verts	Ground	Ground Gleaner	Swamp/Marsh, Grassland
CAAL2	Platform	Fish, Small Verts	Water	Ambusher	Swamp/Marsh
EGRU	Platform	Fish, Aquatic Inverts	Water	Ambusher	Coastal, Swamp/Marsh
EGTH	Platform	Aquatic Inverts, Fish	Water	Ambusher	Swamp/Marsh, Freshwater
SOMO	Scrape	Aquatic Inverts, Fish	Water	Surface Dives, Dabbler	Tundra, Coastal
SOSP	Scrape	Aquatic Inverts	Water	Surface Dives, Dabbler	Tundra, Coastal
SOFI	_ •		Water	Dabbler, Surface Dips	Tundra, Coastal
	Scrape	Aquatic Inverts, Greens	Water	Dabbler, Surface Dips	Tundra, Coastal
POST FAFE	Scrape	Aquatic Inverts, Greens	Air	Aerial Pursuit, Hawker	Grassland, Shrubland
	Platform	Birds, Insects		·	,
FAPE	Scrape	Birds	Air	Aerial Pursuit	Forest, Grassland
FAME	Scrape, Crevice	Birds, Small Mammals	Air, Ground	Aerial Pursuit, Low Patrol	Grassland, Tundra
TUPI	Cup	Insects, Seeds	Ground	Ground Gleaner	Forest
CACA7	Cup	Seeds, Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest
CAME2	Cup, Cavity	Seeds, Fruit	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland, Urban
CAPU1	Cup	Seeds, Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Forest Edge
LEAR	Cup, Crevice	Seeds, Insects	Ground	Ground Gleaner	Rocky Slope, Tundra
PHRU	Saucer	Aquatic Inverts, Greens	Water	Prober	Coastal, Swamp/Marsh
COAU	Cavity	Insects, Seeds	Ground, Air	Ground Gleaner, Hawker	Forest, Urban
EMVI	Cup	Insects, Fruit	Air	Hawker	Riparian, Swamp/Marsh
EMAL	Cup	Insects, Fruit	Air .	Hawker	Swamp/Marsh, Shrubland
MYCI	Cavity	Insects, Fruit	Air	Hover Gleaner, Hawker	Shrubland, Riparian
MYTY	Cavity	Insects, Fruit	Air	Hover Gleaner, Hawker	Shrubland, Desert
EMFU	Cup	Insects	Air	Hawker	Forest
EMOB	Cup	Insects	Air	Hawker, Hover Gleaner	Forest, Shrubland
MYTU	Cavity	Insects, Fruit	Air	Hover Gleaner, Hawker	Riparian, Forest
EMWR	Cup	Insects	Air, Ground	Hawker, Ground Gleaner	Shrubland
MYCR	Cavity	Insects, Fruit	Air, Ground	Hawker, Ground Gleaner	Forest Edge, Forest
EMHA	Cup	Insects	Air	Hawker	Forest
EMMI1	Cup	Insects, Fruit	Air	Hover Gleaner, Hawker	Forest, Urban
COBO	Cup	Insects	Air	Hawker	Forest
TYFO	Cup	Insects, Fruit	Air, Foliage	Hawker, Foliage Gleaner	Grassland, Shrubland
MYLU	Cavity	Insects, Fruit	Air	Hawker	Riparian, Forest
PYRU	Cup	Insects	Air	Hawker, Hover & Pounce	Riparian, Forest Edge
EMDI	Cavity	Insects, Fruit	Air	Hawker, Hover Gleaner	Forest, Riparian
EMTR	Cup	Insects, Fruit	Air	Hawker, Hover Gleaner	Swamp/Marsh
EMFL	Cup	Insects, Fruit	Air	Hawker, Hover Gleaner	Forest, Swamp/Marsh
FRMA	Platform	Fish, Aquatic Inverts	Water, Air	Low Patrol, Hawker	Coastal, Pelagic
FUGL	Scrape, Saucer	Fish, Aquatic Inverts	Water	Surface Dips, High Dives	Pelagic
ANST	Scrape	Greens, Insects	Water	Dabbler, Surface Dives	Swamp/Marsh, Grassland
*	•		Cround	Ground Gleaner	Swamp/Marsh
POMA	Platform	Seeds, Fruit	Ground	Ground Gleaner	Owamprinaish

COMMON NAME	SCIENTIFIC NAME	LCTA CODE	ALPHA CODE	AOU#	NEO STAT	NEST LOCATION
Gnatcatcher, Black-tailed	Polioptila melanura	POME	BTGN	7520	R	Shrub, Woody Lower Canopy
Gnatcatcher, Blue-gray	Polioptila caerulea	POCA	BGGN	7510	Α	Woody Lower Canopy
Godwit, Bar-tailed	Limosa lapponica	LILA	BARG	2500	R	Ground
Godwit, Hudsonian	Limosa haemastica	LIHA	HUGO	2510	R	Ground
Godwit, Marbled	Limosa fedoa	LIFE	MAGO	2490	R	Ground .
Goldeneye, Barrow's	Bucephala islandica	BUIS	BAGO	1520	R	Snag, Woody Upper Canopy
Goldeneye, Common	Bucephala clangula	BUCL	COGO	1510	R	Snag, Woody Upper Canopy
Goldfinch, American	Carduelis tristis	CATR	AMGO	5290	В	Shrub, Woody Lower Canopy
Goldfinch, Lawrence's	Carduelis lawrencei	CALA3	LAGO	5310	В	Woody Upper Canopy, Shrub
Goldfinch, Lesser	Carduelis psaltria	CAPS	LEGO	5300	В	Woody Lower Canopy, Shrub
Goose, Barnacle	Branta leucopsis	BRLE	BRNG	1750	R	Cliff, Ground
Goose, Canada	Branta canadensis	BRCA1	CAGO	1720	R	Ground
Goose, Emperor	Chen canagica	CHCA1	EMGO	1760	R	Ground
Goose, Greater White-fronted	Anser albifrons	ANAL	GWFG	1710	R	Ground
Goose, Pink-footed	Anser brachyrhynchus	ANBR	PFGO	1712	R	Ground, Cliff
Goose, Ross'	Chen rossii	CHRO	ROGO	1700	R	Ground
Goose, Snow	Chen caerulescens	CHCA	SNGO*	1690	R	Ground
Goshawk, Northern	Accipiter gentilis	ACGE	NOGO	3340	В	Woody Upper Canopy
Grackle, Boat-tailed	Quiscalus major	QUMA	BTGR	5130	R	Woody Lower Canopy, Shrub
Grackle, Common	Quiscalus quiscula	QUQU	COGR	5110	R	Woody Lower Canopy
Grackle, Great-tailed	Quiscalus mexicanus	QUME	GTGR	5120	R	Woody Lower Canopy, Shrub
Grebe, Clark's	Aechmophorus clarkii	AECL	CLGR	0011	R	Ground
Grebe, Eared	Podiceps nigricollis	PONI	EAGR	0040	R	Floating
Grebe, Horned	Podiceps auritus	POAU	HOGR	0030	R	Floating
Grebe, Least	Tachybaptus dominicus	TADO	LEGR	0050	R	Floating
Grebe, Pied-billed	Podilymbus podiceps	POPO	PBGR	0060	R	Floating
Grebe, Red-necked	Podiceps grisegena	POGR	RNGR	0020	R	Floating
Grebe, Western	Aechmophorus occidentalis	AEOC	WEGR	0010	R	Floating
Grosbeak, Black-headed	Pheucticus melanocephalus	PHME1	BHGR	5960	Α	Woody Lower Canopy, Shrub
Grosbeak, Blue	Guiraca caerulea	GUCA	BLGR	5970	Α	Shrub, Woody Lower Canopy
Grosbeak, Evening	Coccothraustes vespertinus	COVE	EVGR	5140	R	Woody Upper Canopy
Grosbeak, Pine	Pinicola enucleator	PIEN	PIGR	5150	R	Woody Lower Canopy, Shrub
Grosbeak, Rose-breasted	Pheucticus Iudovicianus	PHLU	RBGR	5950	Α	Woody Lower Canopy, Shrub
Grouse, Blue	Dendragapus obscurus	DEOB	BLGS*	2970	R	Ground
Grouse, Ruffed	Bonasa umbellus	BOUM	RUGR*	3000	R	Ground
Grouse, Sage	Centrocercus urophasianus	CEUR	SAGR*	3090	R	Ground
Grouse, Sharp-tailed	Tympanuchus phasianellus	TYPH	STGR*	3080	R	Ground
Grouse, Spruce	Dendragapus canadensis	DECA	SPGR*	2980	R	Ground
Guillemot, Black	Cepphus grylle	CEGR	BLGU	0270	R	Cliff, Ground
Guillemot, Pigeon	Cepphus columba	CECO1	PIGU	0290	R	Cliff
Gull, Bonaparte's	Larus philadelphia	LAPH	BOGU	0600	R	Woody Lower Canopy, Ground
Gull, California	Larus californicus	LACA1	CAGU	0530	R	Ground
Gull, Common Black-headed	Larus ridibundus	LARI	CBHG	0551	R	Ground
Gull, Franklin's	Larus pipixcan	LAPI	FRGU	0590	R	Floating
Gull, Glaucous	Larus hyperboreus	LAHY	GLGU	0420	R	Cliff, Ground
Gull, Glaucous-winged	Larus glaucescens	LAGL	GWGU	0440	R	Cliff, Ground
Gull, Great Black-backed	Larus marinus	LAMA	GBBG	0470	R	Ground
Gull, Heermann's	Larus heermanni	LAHE	HEEG	0570	R	Ground

LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
POME	Cup	Insects, Seeds	Foliage, Air	Foliage Gleaner, Hover Gleaner	Shrubland
POCA	Cup	Insects	Foliage, Air	Foliage Gleaner, Hover Gleaner	Forest, Shrubland
LILA	Scrape	Aquatic Inverts, Insects	Water	Prober	Tundra, Coastal
LIHA	Scrape	Insects, Aquatic Inverts	Water	Prober	Tundra
LIFE	Scrape	Aquatic Inverts, Insects	Water, Ground	Prober, Ground Gleaner	Grassland, Swamp/Marsh
BUIS	Cavity	Aquatic Inverts	Water	Surface Dives	Swamp/Marsh, Freshwater
BUCL	Cavity	Aquatic Inverts, Fish	Water	Surface Dives	Freshwater, Swamp/Marsh
CATR	Cup	Seeds, Insects	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Grassland, Riparian
CALA3	Cup	Seeds, Insects	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Riparian, Shrubland
CAPS	Cup	Seeds, Insects	Foliage	Foliage Gleaner	Forest Edge, Grassland
BRLE	Scrape	Greens, Seeds	Ground	Ground Gleaner	Tundra, Coastal
BRCA1	Scrape	Greens, Aquatic Inverts	Water	Surface Dips, Dabbler	Swamp/Marsh, Freshwater
CHCA1	Scrape	Greens, Aquatic Inverts	Ground, Water	Ground Gleaner, Dabbler	Swamp/Marsh, Tundra
ANAL	Scrape	Greens, Aquatic Inverts	Water	Surface Dips, Dabbler	Freshwater, Swamp/Marsh
ANBR	Scrape	Grain, Greens	Ground	Ground Gleaner	Tundra, Coastal
CHRO	Scrape	Greens, Aquatic Inverts	Water	Surface Dips, Dabbler	Freshwater, Tundra
CHCA .	Scrape	Greens, Aquatic Inverts	Water	Surface Dips, Dabbler	Tundra, Freshwater
ACGE	Platform	Birds, Small Mammals	Air, Ground	Aerial Pursuit, Low Patrol	Forest
QUMA	Cup	Insects, Small Verts	Ground, Air	Ground Gleaner, Hawker	Swamp/Marsh, Cropland
QUQU	Cup, Cavity	Insects, Aquatic Inverts	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Grassland, Urban
QUME	Cup	Insects, Small Verts	Ground	Ground Gleaner	Grassland, Swamp/Marsh
AECL	Platform	Fish, Aquatic Inverts	Water	Surface Dives	Freshwater, Swamp/Marsh
PONI	Platform	Aquatic Inverts, Fish	Water	Surface Dives	Swamp/Marsh, Freshwater
POAU	Platform	Aquatic Inverts, Fish	Water	Surface Dives	Swamp/Marsh, Freshwater
TADO	Platform	Aquatic Inverts, Fish	Water	Surface Dives	Freshwater, Swamp/Marsh
POPO	Platform	Aquatic Inverts, Fish	Water	Surface Dives	Swamp/Marsh, Riparian
POGR	Platform	Aquatic Inverts, Fish	Water	Surface Dives	Freshwater, Swamp/Marsh
AEOC	Platform	Fish, Aquatic Inverts	Water	Surface Dives	Swamp/Marsh, Freshwater
PHME1	Cup	Insects, Seeds	Foliage	Foliage Gleaner	Riparian, Forest Edge
GUCA	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Riparian, Forest Edge
COVE	Cup	Seeds, Fruit	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Urban
PIEN	Cup	Seeds, Fruit	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Forest, Forest Edge
PHLU	Cup	Insects, Seeds	Foliage, Air	Foliage Gleaner, Hover Gleaner	Forest, Shrubland
DEOB	Scrape	Greens, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest
BOUM	Scrape	Greens, Seeds	Foliage, Ground	Foliage Browser, Ground Gleaner	Forest
CEUR	Scrape	Greens, Insects	Foliage, Ground	Foliage Browser, Ground Gleaner	Shrubland
TYPH	Scrape	Greens, Seeds	Ground, Foliage	Ground Gleaner, Foliage Browser	Grassland, Shrubland
DECA	Scrape	Greens, Fruit	Foliage, Ground	Foliage Browser, Ground Gleaner	Forest
CEGR	Crevice	Fish, Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
CECO1	Crevice, Burrow	Fish, Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
LAPH	Saucer	Insects, Aquatic Inverts	Ground, Water	Scavenger, Surface Dives	Shoreline, Freshwater
LACA1	Scrape	Insects, Small Verts	Water	Scavenger, Surface Dives	Coastal, Freshwater
LARI	Scrape	Insects	Water	Scavenger, Ground Gleaner	Coastal, Freshwater
LAPI	Platform	Insects	Water	Scavenger, Ground Gleaner	Freshwater, Cropland
LAHY	Saucer	Fish, Aquatic Inverts	Water	Scavenger, Low Patrol	Coastal
LAGL	Saucer	Aquatic Inverts, Fish	Water, Ground	Scavenger, Ground Gleaner	Coastal
LAMA	Saucer	Birds, Fish	Ground, Water	Scavenger, Ground Gleaner	Coastal
LAHE	Scrape, Saucer	Fish, Aquatic Inverts	Water	Scavenger, High Dives	Coastal

COMMON NAME	SCIENTIFIC NAME	LCTA CODE	ALPHA CODE	AOU#	NEO STAT	NEST LOCATION
Gull, Herring	Larus argentatus	LAAR	HERG	0510	R	Ground, Cliff
Gull, Iceland	Larus glaucoides	LAGL1	ICGU	0430	R	Cliff, Ground
Gull, Ivory	Pagophila eburnea	PAEB	IVGU	0390	R	Ground, Cliff
Gull, Laughing	Larus atricilla	LAAT	LAGU	0580	R	Ground
Gull, Lesser Black-backed	Larus fuscus	LAFU	LBBG	0500	R	Ground
Gull, Little	Larus minutus	LAMI	LIGU	0601	R	Ground
Gull, Mew	Larus canus	LACA2	MEGU	0550	R	Ground, Floating
Gull, Ring-billed	Larus delawarensis	LADE1	RBGU	0540	R	Ground
Gull, Ross'	Rhodostethia rosea	RHRO	ROGU	0610	R	Ground
Gull, Sabine's	Xema sabini	XESA	SAGU	0620	R	Ground
Gull, Thayer's	Larus thayeri	LATH	THGU	0431	R	Cliff
Gull, Western	Larus occidentalis	LAOC	WEGU	0490	R	Cliff, Ground
Gull, Yellow-footed	Larus livens	LALI	YFGU	0491	R	Ground
Gyrfalcon	Falco rusticolus	FARU	GYRF	3540	R	Cliff, Woody Upper Canopy
Harrier, Northern	Circus cyaneus	CICY	NOHA	3310	В	Ground, Shrub
Hawk, Broad-winged	Buteo platypterus	BUPL	BWHA	3430	Α	Woody Upper Canopy
Hawk, Common Black	Buteogallus anthracinus	BUAN	CBHA	3450	С	Woody Upper Canopy
Hawk, Cooper's	Accipiter cooperii	ACCO	COHA	3330	В	Woody Upper Canopy
Hawk, Ferruginous	Buteo regalis	BURE1	FEHA	3480	В	Woody Upper Canopy, Cliff
Hawk, Gray	Buteo nitidus	BUNI	GRHA	3460	С	Woody Upper Canopy
Hawk, Harris'	Parabuteo unicinctus	PAUN	HRSH	3350	R	Woody Upper Canopy, Shrub
Hawk, Red-shouldered	Buteo lineatus	BULI	RSHA	3390	В	Woody Upper Canopy
Hawk, Red-tailed	Buteo jamaicensis	BUJA	RTHA	3370	В	Woody Upper Canopy, Cliff
Hawk, Rough-legged	Buteo lagopus	BULA	RLHA	3470	R	Cliff, Woody Upper Canopy
Hawk, Sharp-shinned	Accipiter striatus	ACST	SSHA	3320	В	Woody Upper Canopy
Hawk, Short-tailed	Buteo brachyurus	BUBR	STHA	3440	R	Woody Upper Canopy
Hawk, Swainson's	Buteo swainsoni	BUSW	SWHA	3420	Α	Woody Upper Canopy, Cliff
Hawk, White-tailed	Buteo albicaudatus	BUAL2	WTHA	3410	R	Woody Lower Canopy, Shrub
Hawk, Zone-tailed	Buteo albonotatus	BUAL3	ZTHA	3400	С	Woody Upper Canopy
Heron, Black-crowned Night	Nycticorax nycticorax	NYNY	BCNH	2020	R	Woody Lower Canopy, Ground
Heron, Great Blue	Ardea herodias	ARHE	GTBH	1940	R	Woody Upper Canopy
Heron, Green-backed	Butorides striatus	BUST	GNBH	2010	R	Woody Lower Canopy, Shrub
Heron, Little Blue	Egretta caerulea	EGCA	LBHE	2000	R	Woody Upper Canopy, Shrub
Heron, Tricolored	Egretta tricolor	EGTR	TRHE	1990	R	Woody Lower Canopy, Shrub
Heron, Yellow-crowned Night	Nycticorax violaceus	NYVI	YCNH	2030	R	Woody Upper Canopy, Shrub
Hummingbird, Allen's	Selasphorus sasin	SESA	ALHU	4340	Α	Woody Lower Canopy, Shrub
Hummingbird, Anna's	Calypte anna	CAAN	ANHU	4310	В	Woody Lower Canopy, Shrub
Hummingbird, Berylline	Amazilia beryllina	AMBE	BEHU	4381	R	Woody Upper Canopy
Hummingbird, Black-chinned	Archilochus alexandri	ARAL1	BCHU	4290	Α	Woody Lower Canopy
Hummingbird, Blue-throated	Lampornis clemenciae	LACL	BLUH	4270	С	Ground, Woody Lower Canopy
Hummingbird, Broad-billed	Cynanthus latirostris	CYLA	BBLH	4410	С	Woody Lower Canopy, Shrub
Hummingbird, Broad-tailed	Selasphorus platycercus	SEPL	BTLH	4320	Α	Woody Lower Canopy
Hummingbird, Buff-bellied	Amazilia yucatanensis	AMYU	BUFH	4390	С	Shrub, Woody Lower Canopy
Hummingbird, Calliope	Stellula calliope	STCA	CAHU	4360	Α	Woody Upper Canopy, Shrub
Hummingbird, Costa's	Calypte costae	CACO	COHU	4300	Α	Shrub, Woody Lower Canopy
Hummingbird, Lucifer	Calothorax lucifer	CALU	LUHU	4370	С	Shrub, Woody Lower Canopy
Hummingbird, Magnificent	Eugenes fulgens	EUFU	MAHU	4260	C	Woody Upper Canopy
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LAGL1 Saucer Fish, Aquatic Inverts Water Ground Scavenger, High Dives Coastal Freshwater	LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
PAEB Saucer, Scrape Fish, Aquatic Inverts Ground, Water Scavenger, Ground Gleaner Swamp/Marsh Castal Scrape, Saucer Fish, Aquatic Inverts Water Scavenger, Ground Gleaner Swamp/Marsh, Grassland Swamp, Ground Gleaner Swamp/Marsh, Grassland Swamp, Ground Gleaner Swamp, Marsh, Freshwater Swamp, Marsh, Freshwater Swamp, Marsh, Freshwater Swamp, Marsh, Ground Gleaner Swamp, Marsh, Freshwater Ground Gleaner Swamp, Marsh, Freshwater Ground Gleaner Swamp,	LAAR	Saucer	Seeds, Birds	Water, Ground	Scavenger, Ground Gleaner	Coastal, Freshwater
LAFU Saucer Fish, Aquatic Inverts Water Scavenger, Ground Gleaner Coastal LAFU Saucer Fish, Aquatic Inverts Water Scavenger, Ground Gleaner Coastal LACA2 Scrape, Cup Insects Ground, Water Scavenger, Ground Gleaner Coastal, Tundra Coastal, Tundra Scavenger, Ground Gleaner Fish, Insects Ground, Water Scavenger, Ground Gleaner Coastal, Tundra Coastal, Tundra Scavenger, Ground Gleaner Coastal, Tundra Scavenger, Ground Gleaner Coastal, Tundra Coastal Coas	LAGL1	Saucer	Fish, Aquatic Inverts	Water	Scavenger, High Dives	Coastal
LAFU Saucer Fish, Aquatic Inverts Water Scavenger Cround Gleaner Coastal, Tundra Scrape, Cup Insects Ground, Water Scavenger, Ground Gleaner Freshwater, Coastal Inverts Scavenger, Ground Gleaner Freshwater, Coastal Tundra Scavenger, Ground Gleaner Freshwater, Coastal Tundra Scavenger, Ground Gleaner Insects, Fish, Insects Ground, Water Scavenger, Ground Gleaner Freshwater, Coastal Inverts Scavenger, Ground Gleaner Tundra, Freshwater Coastal LATH Saucer Fish, Fruit Water, Ground Scavenger, Ground Gleaner Tundra, Freshwater Coastal LATH Saucer Fish, Aquatic Inverts Water, Ground Scavenger, Ground Gleaner Coastal Tundra, Freshwater Coastal LATH Saucer Fish, Aquatic Inverts Water, Ground Air Coastal CALI Saucer Fish, Aquatic Inverts Water, Ground Air Coastal CALI Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal CALI Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal Tundra, Rocky Slope Platform Small Mammals, Brids Ground, Air Swooper Forest Swamp/Marsh Platform Small Mammals, Brids Ground, Air Swooper Forest Swamp/Marsh, Fiparian Sulform Birds Small Werts, Fish Ground Marier Swooper Grassland Swamp/Marsh Platform Small Mammals, Birds Ground Hover & Pounce, Swooper Grassland Shrubland Platform Small Mammals, Small Verts Ground Low Patrol, Swooper Grassland Shrubland Platform Small Mammals, Small Verts Ground Low Patrol, Swooper Grassland, Shrubland Platform Small Mammals, Insects Air Arail Pursuit Forest Grassland, Shrubland Shirls Ground High Patrol Grassland, Shrubland Platform Small Mammals, Insects Ground High Patrol Grassland, Shrubland Platform Small Mammals, Small Verts Ground High Patrol Grassland, Shrubland Grassland, Shrubland Platform Small Mammals, Small Verts Ground High Patrol Grassland, Shrubland Grassland, Shrubland Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater Swamp/Marsh, Freshwater Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater Fishwater Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater Fishwater Platform Fish, S	PAEB	Saucer, Scrape	Fish, Aquatic Inverts	Water, Ground	Scavenger, High Dives	Coastal
LACAZ Scrape, Cup Insects Aquatic Inverts Ground, Water LACAZ Scrape, Cup Insects Ground, Water Castal, Tundra Scavenger, Ground Gleaner Coastal, Tundra Scavenger, Ground Gleaner Freihwert, Coastal Surface Dips, Ground Gleaner Freihwert, Coastal Tundra Surface Dips, Ground Gleaner Freihwert, Coastal Surface Dips, Ground Gleaner Freihwert, Coastal Surface Dips, Ground Gleaner Surface Dips, Ground Gleaner Surface Dips, Ground Gleaner Tundra, Freihwater Castal, Tundra Surface Dips, Ground Gleaner Surface Dips, Ground Gleaner Tundra, Freihwater Castal, Tundra Surface Dips, Ground Gleaner Surface Dips, Ground Gleaner Tundra, Freihwater Castal Surface Dips, Ground Gleaner Tundra, Freihwater Surface Dips, Ground Gleaner Tundra, Freihwater Surface Dips, Ground Gleaner Tundra, Freihwater Surface Dips, Ground Gleaner Age Tundra, Freihwater Surface Dips, Ground Gleaner Ground Gleaner Ground Gleaner Ground Gleaner Ground Gleaner Surface D	LAAT	Scrape, Saucer	Aquatic Inverts	Ground, Water	Scavenger, Ground Gleaner	Swamp/Marsh
LADE1 Saucer Fish, Insects Ground, Water Scavenger, Ground Gleaner Freshwater, Coastal, Tundra Freshwater, Coastal Saucer Fish, Insects Ground, Water XESA Scrape Insects, Fish Water, Ground Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal CAUL Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal CAUL Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal CAUL Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal CAUL Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal CAUL Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal CAUL Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal CAUL Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Grassland, SwampMarsh Fish Ground, Air Swooper Sauth Mammals, Small Werts Ground, Air Swooper Sauth Mammals, Birds Ground Hover & Pounce, Swooper SwampMarsh, Riparian Fish Shull Werts Ground Low Patrol, Swooper Grassland, Shrulband Bull Platform Small Mammals, Small Werts Ground Low Patrol, Swooper Grassland, Shrulband Bull Platform Small Mammals, Birds Ground Hover & Pounce, Swooper Forest, Tundra Forest Platform Birds Ground Hover & Pounce, Swooper Forest, Tundra Forest Platform Birds Ground Hover & Pounce, Swooper Forest, Grassland Forest Platform Birds Ground Hover & Pounce, Swooper Forest, Tundra Forest Platform Birds Ground Hover & Pounce, Swooper Forest, Tundra Forest Platform Small Mammals, Insects Ground Hover & Pounce, Swooper Forest, Tundra Forest Platform Small Mammals, Small Verts Ground Hover & Pounce Swooper Forest, Tundra Forest Platform Small Mammals, Small Verts Ground Hover & Pounce Swooper Forest, Tundra Forest Platform Small Mammals, Small Verts Ground Hover & Pounce Swooper Forest, Tundra Forest Platform Fish, Small Verts Water Ambusher SwampMarsh, Freshwa	LAFU	Saucer	Fish, Aquatic Inverts	Water	Scavenger	Coastal
LADET Saucer Fish, Insects Ground, Water Scavenger, Ground Gleaner Insects, Fish Water, Ground Surface Dips, Ground Gleaner Coastal Undra Scass Scrape Fish, Insects Ground, Water Scavenger, Ground Gleaner Coastal Undra Scavenger, Fish, Fruit Water, Ground Scavenger, Low Patrol Coastal Undra Freshwater Coastal Undra Scavenger, Fish, Fruit Water, Ground Scavenger, Low Patrol Coastal Coastal CADC Saucer Fish, Aquatic Inverts Water Scavenger, Cow Patrol Coastal CADC Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal CADC Platform Small Mammals, Small Verts Ground, Air Scavenger, Low Patrol CADC Platform Small Mammals, Small Verts Ground, Air Scavenger Coastal CADC Platform Small Mammals, Birds Ground, Air Swooper Forest Small Water Scavenger Fish Ground Hover & Pounce, Swooper Forest Shiparian Platform Small Mammals, Birds Ground Hover & Pounce, Swooper Gress, Riparian Fish Ground Hover & Pounce, Swooper Forest, Grassland Shruland Platform Small Mammals, Small Verts Ground Hover & Pounce, Swooper Forest, Grassland Shruland Bulka Platform Birds Ground Hover & Pounce, Swooper Forest, Grassland Forest Ground Hover & Pounce, Swooper Forest, Grassland, Forest Ground Hover & Pounce, Swooper Forest, Tundra Forest Ground High Patrol Grassland, Forest Ground Fish	LAMI	Scrape	Insects, Aquatic Inverts	Water	Surface Dips	Swamp/Marsh, Grassland
RHRO Scrape Insects, Fish Water, Ground Surface Dips, Ground Gleaner Castal, Tundra XESA Scrape Fish, Insects Ground, Water Sauver Fish, Firit Water, Ground Surveyer, Low Patrol Coastal LACI Saucer Fish, Aquatic Inverts Water, Ground Scavenger, Low Patrol Coastal LALI Saucer Fish, Aquatic Inverts Water, Ground Scavenger, Low Patrol Coastal LALI Saucer Fish, Aquatic Inverts Water, Ground Scavenger, Low Patrol Coastal CALI Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal CALI Saucer Fish, Aquatic Inverts Water Scavenger Coastal Coastal CALI Saucer Fish, Aquatic Inverts Water Scavenger Coastal Castal CALI Saucer Fish, Aquatic Inverts Water Scavenger Coastal Castal CALI Saucer Fish, Aquatic Inverts Ground, Air Low Patrol Grassland, SwampMarsh Subpland Patrom Small Mammals, Birds Ground, Air Swooper SwampMarsh, Riparian CACO Platform Small Mammals, Birds Ground Hover & Pounce, Swooper SwampMarsh, Riparian Castal Putlom Small Mammals, Small Verts Ground Hover & Pounce, Swooper Grassland Patrom Small Mammals, Small Verts Ground Low Patrol, Swooper Grassland, Shrubland Patrom Small Mammals, Birds Ground Low Patrol, Swooper Grassland, Shrubland Patrom Small Mammals, Birds Ground Hover & Pounce, Swooper Forest, Tundra Patrom Small Mammals, Birds Ground Hover & Pounce, Swooper Forest, Tundra Patrom Small Mammals, Birds Ground Hover & Pounce, Swooper Forest, Tundra Patrom Small Mammals, Birds Ground Hover & Pounce, Swooper Forest, Tundra Patrom Small Mammals, Small Verts Ground High Patrol Grassland, Swamp/Marsh Forest Ground High Patrol Grassland, Swamp/Marsh Forest Ground High Patrol Grassland, Shrubland Grassland, Shrubland Grassland, Shrubland Grassland, Shrubland Fish, Small Verts Birds Ground High Patrol Grassland, Shrubland Grassland, Shrubland Grassland, Shrubland Fish, Small Verts Ground High Patrol Grassland, Shrubland, Grassland Shrubland Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater Swamp/Marsh, Freshwater Ground Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater Ground Fish, Sm	LACA2	Scrape, Cup	Insects	Ground, Water	Scavenger, Ground Gleaner	Coastal, Tundra
XESA Scrape Fish, Insects Ground, Water Scavenger, Ground Gleaner Tundra, Freshwater LATH Saucer Fish, Aquatic Inverts Water, Ground Scavenger, Low Patrol Coastal LALI Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal LALI Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal LALI Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal LALI Saucer Fish, Aquatic Inverts Water Scavenger, Low Patrol Coastal LOW Platform Small Mammals, Birds Ground, Air Swooper Forest BUANI Platform Small Mammals, Birds Ground Aric Ground Hover & Pounce, Swooper Grassland BUNI Platform Small Mammals, Small Verts Ground Low Patrol, Swooper Grassland, Shrubland BULL Platform Small Mammals, Small Verts Ground Hoyer & Pounce, Swooper Forest, Grassland, Shrubland BUSW	LADE1	Saucer	Fish, Insects	Ground, Water	Scavenger, Ground Gleaner	Freshwater, Coastal
LATH Saucer Fish, Fruit Water, Ground Scavenger, Low Patrol Coastal LACC Saucer Fish, Aquatic Inverts Water, Ground Scavenger, Low Patrol Coastal LALI Saucer Fish, Aquatic Inverts Water Scavenger Low Patrol Coastal FARU Scrape Birds, Small Mammals Air, Ground Aerial Pursuit, Low Patrol Tundra, Rocky Slope CICY Platform Small Mammals, Birds Ground, Air Swooper Forest BUAN Platform Small Mammals, Birds Ground, Air Swooper Forest BUAN Platform Small Mammals, Birds Ground, Air Swooper Forest BUAN Platform Birds, Small Mammals Air, Ground Hover & Swooper Forest BUNI Platform Small Mammals, Birds Ground Hover & Pounce, Swooper Grassland BUNI Platform Small Mammals, Birds Ground Water Swooper Grassland BUNI Platform Small Mammals, Small Vets BULI Platform Small Mammals, Birds Ground Low Patrol, High Patrol BULI Platform Small Mammals, Birds Ground Low Patrol, High Patrol BULI Platform Small Mammals, Birds Ground Hover & Pounce, Swooper Grassland, Shrubland BULIA Platform Small Mammals, Insects Ground Hover & Pounce, Swooper Forest, Grassland BULIA Platform Birds Ground High Patrol Grassland, Swamp/Marsh Ground High Patrol Grassland, Shrubland BUSW Platform Birds Ground High Patrol Grassland, Shrubland BUSW Platform Small Mammals, Small Vets BUALA Platform Small Wets Ground High Patrol Grassland, Shrubland BUALA Platform Small Wets Water Ambusher Swamp/Marsh, Freshwater BUALA Platform Fish, Aquatic Inverts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Vets Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Vets Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Vets Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Vets Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Vets Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Insects Air Hover Gleaner, Hawker Forest, Shrubland BUS	RHRO	Scrape	Insects, Fish	Water, Ground	Surface Dips, Ground Gleaner	Coastal, Tundra
LACC Saucer Fish, Aquatic Inverts Water, Ground Scavenger, Low Patrol Coastal LALI Saucer Fish, Aquatic Inverts Water Scavenger Coastal FARU Scrape Birds, Small Mammals (Ground, Air) Low Patrol Ground, Small Mammals BUPL Platform Small Mammals, Birds Ground, Air Swooper Forest BUAN Platform Small Mammals, Birds Ground, Water Swooper Swamp/Marsh, Riparian ACCO Platform Small Mammals, Birds Ground Aerial Pursuit, Low Patrol Forest, Riparian BURE1 Platform Small Mammals, Birds Ground Hover & Pounce, Swooper Grassland BUNI Platform Small Mammals, Small Verts Ground Low Patrol, Weoper Grassland, Shrubland BULA Platform Small Mammals, Birds Ground High Patrol, Swooper Forest, Grassland BULA Platform Small Mammals, Birds Ground High Patrol, Swooper Forest, Grassland, Shrubland BULA Platform </td <td>XESA</td> <td>Scrape</td> <td>Fish, Insects</td> <td>Ground, Water</td> <td>Scavenger, Ground Gleaner</td> <td>Tundra, Freshwater</td>	XESA	Scrape	Fish, Insects	Ground, Water	Scavenger, Ground Gleaner	Tundra, Freshwater
LALI Saucer Fish, Aquatic Inverts Water Scavenger Coastal FARIU Scrape Birds, Small Mammals Air, Ground Aerial Pursuit, Low Patrol Tundra, Rocky Slope CICY Platform Small Mammals, Birds Ground, Air Low Patrol Grassland, Swamp/Marsh BUAN Platform Small Mammals, Birds Ground, Air Swooper Forest BURNI Platform Small Mammals, Birds Ground Swooper Swamp/Marsh, Riparian BUNI Platform Small Mammals, Birds Ground Hover & Pounce, Swooper Grassland BUNI Platform Small Mammals, Small Verts Ground Low Patrol, High Patrol Riparian, Symamp/Marsh BULA Platform Small Mammals, Small Verts Ground Low Patrol, High Patrol Grassland, Shrubland BULA Platform Small Mammals, Insects Ground High Patrol, Swooper Forest, Grassland BUSW Platform Birds Air Aerial Pursuit Forest BUASW Platform Smal	LATH	Saucer	Fish, Fruit	Water, Ground	Scavenger, Low Patrol	Coastal
FARU Scrape Birds, Small Mammals Air, Ground Aerial Pursuit, Low Patrol Grassland, Swamp/Marsh Sund Warts Ground, Air Swooper Forest Small Mammals, Small Verts Ground, Air Swooper Forest Swamp/Marsh, Riparian Platform Birds, Small Mammals Air, Ground Aerial Pursuit, Low Patrol Grassland, Swamp/Marsh, Riparian ACCO Platform Birds, Small Mammals Air, Ground Aerial Pursuit, Low Patrol Forest, Riparian Forest Small Mammals, Birds Ground Hover & Pounce, Swooper Grassland BURE1 Platform Small Mammals, Birds Ground Hover & Pounce, Swooper Grassland BURI Platform Small Mammals, Small Verts Ground Low Patrol, Swooper Grassland, Shrubland BULI Platform Small Mammals, Small Verts Ground Low Patrol, Swooper Grassland, Shrubland BULI Platform Small Mammals, Small Verts Ground Low Patrol, High Patrol Riparian, Swamp/Marsh BUJA Platform Small Mammals, Birds Ground High Patrol, Swooper Forest, Grassland BULIA Platform Birds Air Aerial Pursuit Forest Platform Birds Air Aerial Pursuit Forest Platform Birds Air Aerial Pursuit Forest Platform Birds Ground High Patrol Grassland, Swamp/Marsh BUSW Platform Small Mammals, Small Verts Ground High Patrol Grassland, Forest BUAL2 Platform Small Mammals, Small Verts Ground High Patrol Grassland, Forest BUAL3 Platform Small Mammals, Small Verts Ground High Patrol Grassland, Forest BUAL4 Platform Fish, Small Verts Ground High Patrol Grassland, Forest BUAL5 Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater Swamp/Marsh, Freshwater SegA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland Forest Forest, Shrubland Forest Shrubland Poetar, Insects Air Hover Gleaner, Hawker Forest, Shrubland Riparian Forest, Insects Air Hover Gleaner, Hawker Forest, Shrubland Forest, Shrubland Poetar, Insects Air Hover Gleaner, Hawker Forest, Shrubland Forest, Shrubland Poetar, Insects Air Hover Gleaner, Hawker Forest, Shrubland Forest, Shrubland P	LAOC	Saucer	Fish, Aquatic Inverts	Water, Ground	Scavenger, Low Patrol	Coastal
CICY Platform Small Mammals, Small Verts Ground, Air Low Patrol Grassland, Swamp/Marsh BUPL Platform Small Mammals, Birds Ground, Air Swooper Forest BUAN Platform Small Verts, Fish Ground, Water Swooper Swamp/Marsh, Riparian ACCO Platform Birds, Small Mammals Air, Ground Hover & Pounce, Swooper Grassland BUNI Platform Small Mammals, Small Verts Ground Low Patrol, Swooper Grassland, Shrubland BULI Platform Small Mammals, Small Verts Ground Low Patrol, High Patrol Riparian, Forest BULA Platform Small Mammals, Small Verts Ground Hover & Pounce, Swooper Forest, Grassland BULA Platform Birds Air Aerial Pursuit Forest Forest, Tundra BUSW Platform Birds Air Aerial Pursuit Forest, Tundra BUAL2 Platform Birds Ground High Patrol Grassland, Shamp/Marsh BUSW Platform	LALI	Saucer	Fish, Aquatic Inverts	Water	Scavenger	Coastal
BUPL Platform Small Mammals, Birds Ground, Air Swooper Forest BUAN Platform Small Verts, Fish Ground, Water Swooper Swamp/Marsh, Piparian ACCO Platform Birds, Small Mammals Air, Ground Hover & Pounce, Swooper Grassland BUNI Platform Small Mammals, Small Verts Ground Low Patrol, Swooper Grassland, Shrubland BULI Platform Small Mammals, Small Verts Ground Low Patrol, Swooper Grassland, Shrubland BULI Platform Small Mammals, Small Verts Ground Hover & Pounce, Swooper Forest, Grassland BULA Platform Small Mammals, Insects Ground Hover & Pounce, Swooper Forest, Trundra BUBA Platform Birds Air Aerial Pursuit Forest BUBR Platform Birds Ground High Patrol Grassland, Swamp/Marsh BUAL2 Platform Small Mammals, Small Verts Ground High Patrol Grassland, Swrubland BUAL2 Platform Sma	FARU	Scrape	Birds, Small Mammals	Air, Ground	Aerial Pursuit, Low Patrol	Tundra, Rocky Slope
BUAN Platform Small Verts, Fish Ground, Water Swooper Swamp/Marsh, Riparian ACCO Platform Birds, Small Mammals Air, Ground Aerial Pursuit, Low Patrol Forest, Riparian BURE1 Platform Small Mammals, Birds Ground Hover & Pounce, Swooper Grassland BUNI Platform Small Mammals, Small Verts Ground Low Patrol, Evp Patrol Riparian, Forest PAUN Platform Small Mammals, Small Verts Ground Low Patrol, High Patrol Riparian, Swamp/Marsh BULJA Platform Small Mammals, Birds Ground Hover & Pounce, Swooper Forest, Trundra ACST Platform Small Mammals, Insects Ground Hover & Pounce, Swooper Forest, Trundra BUBLA Platform Birds Ground Hover & Pounce, Swooper Forest, Trundra BUSW Platform Birds Air Aerial Pursuit Forest, Trundra BUAL2 Platform Birds Ground High Patrol Grassland, Swamp/Marsh BUSW Platform <td>CICY</td> <td>Platform</td> <td>Small Mammals, Small Verts</td> <td>Ground, Air</td> <td>Low Patrol</td> <td>Grassland, Swamp/Marsh</td>	CICY	Platform	Small Mammals, Small Verts	Ground, Air	Low Patrol	Grassland, Swamp/Marsh
ACCO Platform Birds, Small Mammals Air, Ground Aerial Pursuit, Low Patrol Forest, Riparian BUREI Platform Small Mammals, Birds Ground Hover & Pounce, Swooper Grassland BUNI Platform Small Verts, Birds Ground Low Patrol, Swooper Grassland, Shrubland BULI Platform Small Mammals, Small Verts Ground Low Patrol, High Patrol Riparian, Swamp/Marsh BUJA Platform Small Mammals, Birds Ground High Patrol Prorest, Grassland BULA Platform Small Mammals, Insects Ground High Patrol Forest BUAS Platform Birds Ground High Patrol Grassland, Swamp/Marsh BUSW Platform Small Mammals, Small Verts Ground High Patrol Grassland, Sroest BUAL2 Platform Small Mammals, Small Verts Ground High Patrol Grassland, Shrubland BUAL3 Platform Small Werts, Birds Ground High Patrol Shrubland, Grassland NYNY Platform	.BUPL	Platform	Small Mammals, Birds	Ground, Air	Swooper	Forest
BURE1 Platform Small Mammals, Birds Ground Hover & Pounce, Swooper Grassland BUNI Platform Small Verts, Birds Ground Swooper, Low Patrol Riparian, Forest PAUN Platform Small Mammals, Small Verts Ground Low Patrol, Swooper Grassland, Shrubland BULA Platform Small Mammals, Birds Ground High Patrol, Swooper Forest, Grassland BULA Platform Small Mammals, Insects Ground Hover & Pounce, Swooper Forest, Grassland BUBR Platform Birds Air Aerial Pursuit Forest BUSW Platform Birds Ground High Patrol Grassland, Swamp/Marsh BUAL2 Platform Small Mammals, Small Verts Ground High Patrol Grassland, Forest BUAL3 Platform Small Mammals, Small Verts Ground High Patrol Grassland, Swamp/Marsh BUSW Platform Small Warts Water Ambusher Swamp/Marsh, Freshwater BUAL2 Platform Fish, Small Verts<	BUAN	Platform	Small Verts, Fish	Ground, Water	Swooper	Swamp/Marsh, Riparian
BUNI Platform Small Verts, Birds Ground Swooper, Low Patrol Riparian, Forest PAUN Platform Small Mammals, Small Verts Ground Low Patrol, Swooper Grassland, Shrubland BULI Platform Small Mammals, Birds Ground High Patrol, Swooper Forest, Grassland BULA Platform Small Mammals, Insects Ground High Patrol, Swooper Forest, Grassland BUBA Platform Birds Ground High Patrol Grassland, Swamp/Marsh BUSW Platform Birds Ground High Patrol Grassland, Swamp/Marsh BUAL2 Platform Small Mammals, Small Verts Ground High Patrol Grassland, Swamp/Marsh BUAL3 Platform Small Mammals, Small Verts Ground High Patrol Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform	ACCO	Platform	Birds, Small Mammals	Air, Ground	Aerial Pursuit, Low Patrol	Forest, Riparian
PAUN Platform Small Mammals, Small Verts Ground Low Patrol, Swooper Grassland, Shrubland BULI Platform Small Mammals, Small Verts Ground Low Patrol, High Patrol Riparian, Swamp/Marsh BUJA Platform Small Mammals, Birds Ground High Patrol, Swooper Forest, Grassland Pursuit Forest Platform Birds Air Aerial Pursuit Forest Platform Birds Air Aerial Pursuit Forest BUBR Platform Birds Ground High Patrol Grassland, Swamp/Marsh BUSW Platform Small Mammals, Small Verts Ground High Patrol Grassland, Swamp/Marsh BUSW Platform Small Mammals, Small Verts Ground High Patrol Grassland, Shrubland BUAL3 Platform Small Werts Ground High Patrol Hover & Pounce Grassland, Shrubland Small Verts Ground High Patrol Shrubland, Grassland Shrubland Platform Small Verts Water Ambusher Swamp/Marsh, Freshwater ARHE Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Insects Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater EGCA Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater SESA Cup Nectar, Insects Water, Ground Ambusher, Ground Gleaner Swamp/Marsh, Freshwater SESA Cup Nectar, Insects Air Hover Gleaner, Hawker Shrubland, Forest CAAN Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMBE Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland FORES, Nectar Air Hover Gleaner, Hawker Forest, Shrubland Porest, Insects Air Hover Gleaner, Hawker Forest, Shrubland Porest, Insects Air Hover Gleaner, Hawker Forest, Shrubland Porest, Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland Porest, Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland Porest, Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland Porest, Cup Nectar, Insects Air Hover Gleaner Porest, Shrubland Porest	BURE1	Platform	Small Mammals, Birds	Ground	Hover & Pounce, Swooper	Grassland
BULI Platform Small Mammals, Small Verts Ground Low Patrol, High Patrol Riparian, Swamp/Marsh BUJA Platform Small Mammals, Birds Ground High Patrol, Swooper Forest, Grassland BULA Platform Small Mammals, Insects Ground Hover & Pounce, Swooper Forest, Tundra BUSW Platform Birds Ground High Patrol Grassland, Swamp/Marsh BUSW Platform Small Mammals, Small Verts Ground High Patrol Grassland, Forest BUAL2 Platform Small Mammals, Small Verts Ground High Patrol Grassland, Forest BUAL3 Platform Small Mammals, Small Verts Ground High Patrol Shrubland, Grassland BUAL3 Platform Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform <t< td=""><td>BUNI</td><td>Platform</td><td>Small Verts, Birds</td><td>Ground</td><td>Swooper, Low Patrol</td><td>Riparian, Forest</td></t<>	BUNI	Platform	Small Verts, Birds	Ground	Swooper, Low Patrol	Riparian, Forest
BUJA Platform Small Mammals, Birds Ground High Patrol, Swooper Forest, Grassland BULA Platform Birds Air Aerial Pursuit Forest, Tundra ACST Platform Birds Air Aerial Pursuit Forest, Tundra BUBR Platform Birds Ground High Patrol Grassland, Swamp/Marsh BUAL2 Platform Small Mammals, Small Verts Ground High Patrol Grassland, Shrubland BUAL3 Platform Small Mammals, Small Verts Ground High Patrol Grassland, Shrubland BUAL3 Platform Small Verts Ground High Patrol Shrubland, Grassland NYNY Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher <td>PAUN</td> <td>Platform</td> <td>Small Mammals, Small Verts</td> <td>Ground</td> <td>Low Patrol, Swooper</td> <td>Grassland, Shrubland</td>	PAUN	Platform	Small Mammals, Small Verts	Ground	Low Patrol, Swooper	Grassland, Shrubland
BULA Platform Small Mammals, Insects Ground Hover & Pounce, Swooper Forest, Tundra ACST Platform Birds Air Aerial Pursuit Forest BUBR Platform Birds Ground High Patrol Grassland, Swamp/Marsh BUSW Platform Small Mammals, Small Verts Ground High Patrol Grassland, Forest BUAL2 Platform Small Mammals, Small Verts Ground High Patrol, Hover & Pounce Grassland, Shrubland BUAL3 Platform Small Verts, Birds Ground High Patrol, Hover & Pounce Grassland, Shrubland NYNY Platform Small Verts Water Ambusher Swamp/Marsh, Freshwater ARHE Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater EGCA Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater EYUT Platform Fish, Small Verts	BULI	Platform	Small Mammals, Small Verts	Ground	Low Patrol, High Patrol	Riparian, Swamp/Marsh
ACSTPlatformBirdsAirAerial PursuitForestBUBRPlatformBirdsGroundHigh PatrolGrassland, Swamp/MarshBUSWPlatformSmall Mammals, Small VertsGroundHigh PatrolGrassland, ForestBUAL2PlatformSmall Mammals, Small VertsGroundHigh Patrol, Hover & PounceGrassland, ShrublandBUAL3PlatformSmall Verts, BirdsGroundHigh PatrolShrubland, GrasslandNYNYPlatformFish, Small VertsWaterAmbusherSwamp/Marsh, FreshwaterARHEPlatformFish, Aquatic InvertsWaterAmbusherSwamp/Marsh, FreshwaterBUSTPlatformFish, InsectsWaterAmbusherSwamp/Marsh, FreshwaterEGCAPlatformFish, Small VertsWaterAmbusherSwamp/Marsh, FreshwaterEGTRPlatformFish, Small VertsWaterAmbusherSwamp/Marsh, FreshwaterNYVIPlatformAquatic Inverts, InsectsWater, GroundAmbusher, Ground GleanerSwamp/Marsh, FreshwaterNYVIPlatformAquatic Inverts, InsectsAirHover Gleaner, HawkerShrubland, ForestSESACupNectar, InsectsAirHover Gleaner, HawkerForest, ShrublandAMBECupNectar, InsectsAirHover Gleaner, HawkerForest, ShrublandLAGLCupNectar, InsectsAirHover GleanerForest, ShrublandCYLACupNectar, InsectsAirHover Gleaner <td>BUJA</td> <td>Platform</td> <td>Small Mammals, Birds</td> <td>Ground</td> <td>High Patrol, Swooper</td> <td>Forest, Grassland</td>	BUJA	Platform	Small Mammals, Birds	Ground	High Patrol, Swooper	Forest, Grassland
BUBR Platform Birds Ground High Patrol Grassland, Swamp/Marsh BUSW Platform Small Mammals, Small Verts Ground High Patrol Grassland, Forest BUAL2 Platform Small Mammals, Small Verts Ground High Patrol, Hover & Pounce Grassland, Shrubland BUAL3 Platform Small Verts, Birds Ground High Patrol, Hover & Pounce Grassland, Shrubland Grassland NYNY Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater ARHE Platform Fish, Aquatic Inverts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Insects Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater RGTR Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater NYVI Platform Aquatic Inverts, Insects Water, Ground Ambusher, Ground Gleaner Swamp/Marsh, Freshwater SESA Cup Nectar, Insects Air Hover Gleaner, Hawker Shrubland, Forest CAAN Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMBE Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland RMYU Cup Nectar, Insects Air Hover Gleaner Shrubland Riparian SEPL Cup Nectar, Insects Air Hover Gleaner Shrubland Riparian SEPL Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland RMYU Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland RMYU Cup Nectar, Insects Air Hover Gleaner Shrubland Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland Shrubland Forest, Shr	BULA	Platform	Small Mammals, Insects	Ground	Hover & Pounce, Swooper	Forest, Tundra
BUSW Platform Small Mammals, Small Verts Ground High Patrol Grassland, Forest BUAL2 Platform Small Mammals, Small Verts Ground High Patrol, Hover & Pounce Grassland, Shrubland BUAL3 Platform Small Verts, Birds Ground High Patrol Shrubland, Grassland NYNY Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater ARHE Platform Fish, Aquatic Inverts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Insects Water Ambusher Swamp/Marsh, Freshwater EGCA Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater EGTR Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater NYVI Platform Aquatic Inverts, Insects Water, Ground Gleaner NYVI Platform Aquatic Inverts, Insects Water, Ground Gleaner Swamp/Marsh, Freshwater SESA Cup Nectar, Insects Air Hover Gleaner, Hawker Shrubland, Forest CAAN Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMBE Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland SEPL Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland SEPL Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland	ACST	Platform	Birds	Air	Aerial Pursuit	Forest
BUAL2 Platform Small Mammals, Small Verts Ground High Patrol, Hover & Pounce Grassland, Shrubland BUAL3 Platform Small Verts, Birds Ground High Patrol Shrubland, Grassland NYNY Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater ARHE Platform Fish, Aquatic Inverts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Insects Water Ambusher Swamp/Marsh, Freshwater EGCA Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater EGTR Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater NYVI Platform Aquatic Inverts, Insects Water, Ground Ambusher, Ground Gleaner NYVI Platform Aquatic Inverts, Insects Water, Ground Ambusher, Ground Gleaner Swamp/Marsh, Freshwater SESA Cup Nectar, Insects Air Hover Gleaner, Hawker Shrubland, Forest CAAN Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMBE Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian CYLA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMYU Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland	BUBR	Platform	Birds	Ground	High Patrol	Grassland, Swamp/Marsh
BUAL3 Platform Small Verts, Birds Ground High Patrol Shrubland, Grassland NYNY Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater ARHE Platform Fish, Aquatic Inverts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Insects Water Ambusher Swamp/Marsh, Freshwater EGCA Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater EGTR Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater EGTR Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater NYVI Platform Aquatic Inverts, Insects Water, Ground Ambusher, Ground Gleaner Swamp/Marsh, Freshwater SESA Cup Nectar, Insects Air Hover Gleaner, Hawker Shrubland, Forest CAAN Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMBE Cup Nectar, Insects Air Hover Gleaner Forest ARAL1 Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian CYLA Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner STCA Cup Nectar, Insects Air Hover Gleaner	BUSW	Platform	Small Mammals, Small Verts	Ground	High Patrol	Grassland, Forest
NYNY Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater ARHE Platform Fish, Aquatic Inverts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Insects Water Ambusher Swamp/Marsh, Freshwater EGCA Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater EGTR Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater NYVI Platform Aquatic Inverts, Insects Water, Ground Ambusher, Ground Gleaner Swamp/Marsh, Freshwater SESA Cup Nectar, Insects Air Hover Gleaner, Hawker Shrubland, Forest CAAN Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMBE Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian CYLA Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner AMYU Cup Nectar, Insects Air Hover Gleaner AMYU Cup Nectar, Insects Air Hover Gleaner STCA Cup Nectar, Insects Air Hover Gleaner STCA Cup Nectar, Insects Air Hover Gleaner STCA Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner STCA Cup Nectar, Insects Air Hover Gleaner Shrubland	BUAL2	Platform	Small Mammals, Small Verts	Ground	High Patrol, Hover & Pounce	Grassland, Shrubland
ARHE Platform Fish, Aquatic Inverts Water Ambusher Swamp/Marsh, Freshwater BUST Platform Fish, Insects Water Ambusher Swamp/Marsh, Freshwater EGCA Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater EGTR Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater NYVI Platform Aquatic Inverts, Insects Water, Ground Ambusher, Ground Gleaner Swamp/Marsh, Freshwater SESA Cup Nectar, Insects Air Hover Gleaner, Hawker Shrubland, Forest CAAN Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMBE Cup Nectar, Insects Air Hover Gleaner Forest ARAL1 Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian CYLA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland NMYU Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland STCA Cup Nectar, Insects Air Hover Gleaner Shrubland STCALU Cup Insects, Nectar Air Hover Gleaner Shrubland Shrubland CALU Cup Nectar, Insects Air Hover Gleaner Shrubland Sh	BUAL3	Platform	Small Verts, Birds	Ground	High Patrol	Shrubland, Grassland
BUST Platform Fish, Insects Water Ambusher Swamp/Marsh, Freshwater EGCA Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater EGTR Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater NYVI Platform Aquatic Inverts, Insects Water, Ground Ambusher, Ground Gleaner Swamp/Marsh, Freshwater SESA Cup Nectar, Insects Air Hover Gleaner, Hawker Shrubland, Forest CAAN Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMBE Cup Nectar, Insects Air Hover Gleaner Forest ARAL1 Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian CYLA Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner AMYU Cup Nectar, Insects Air Hover Gleaner STCA Cup Nectar, Insects Air Hover Gleaner STCALU Cup Insects, Nectar Air Hover Gleaner STCALU Cup Nectar, Insects Air Hover Gleaner STCALU Cup Nectar, Insects Air Hover Gleaner	NYNY	Platform	Fish, Small Verts	Water	Ambusher	Swamp/Marsh, Freshwater
EGCA Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater EGTR Platform Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater NYVI Platform Aquatic Inverts, Insects Water, Ground Ambusher, Ground Gleaner Swamp/Marsh, Freshwater SESA Cup Nectar, Insects Air Hover Gleaner, Hawker Shrubland, Forest CAAN Cup Nectar, Insects Air Hover Gleaner Forest ARAL1 Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Shrubland CYLA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner Shrubland, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMYU Cup Nectar, Insects Air Hover Gleaner STCA Cup Nectar, Insects Air Hover Gleaner	ARHE	Platform	Fish, Aquatic Inverts	Water	Ambusher	Swamp/Marsh, Freshwater
Fish, Small Verts Water Ambusher Swamp/Marsh, Freshwater NYVI Platform Aquatic Inverts, Insects Water, Ground Ambusher, Ground Gleaner SESA Cup Nectar, Insects Air Hover Gleaner, Hawker Shrubland, Forest CAAN Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMBE Cup Nectar, Insects Air Hover Gleaner Forest ARAL1 Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian CYLA Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner AMYU Cup Nectar, Insects Air Hover Gleaner STCA Cup Nectar, Insects Air Hover Gleaner STCACO Cup Nectar, Insects Air Hover Gleaner STCACO Cup Nectar, Insects Air Hover Gleaner STCACO Cup Nectar, Insects Air Hover Gleaner STCALU Cup Insects, Nectar Air Hover Gleaner STCALU Cup Nectar, Insects Air Hover Gleaner	BUST	Platform	Fish, Insects	Water	Ambusher	Swamp/Marsh, Freshwater
NYVI Platform Aquatic Inverts, Insects Water, Ground Ambusher, Ground Gleaner Swamp/Marsh, Freshwater SESA Cup Nectar, Insects Air Hover Gleaner, Hawker Shrubland, Forest CAAN Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland AMBE Cup Nectar, Insects Air Hover Gleaner Forest Shrubland Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian CYLA Cup Nectar, Insects Air Hover Gleaner Shrubland, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner Shrubland, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland STCACO Cup Nectar, Insects Air Hover Gleaner Shrubland Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland Shrubland CALU Cup Insects, Nectar Air Hover Gleaner Shrubland S	EGCA	Platform	Fish, Small Verts	Water	Ambusher	Swamp/Marsh, Freshwater
SESA Cup Nectar, Insects Air Hover Gleaner, Hawker Shrubland, Forest CAAN Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMBE Cup Nectar, Insects Air Hover Gleaner Forest ARAL1 Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian CYLA Cup Nectar, Insects Air Hover Gleaner Shrubland, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMYU Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CALU Cup Insects, Nectar Air Hover Gleaner Shrubland EUFU Cup Nectar, Insects Air Hover Gleaner Forest	EGTR	Platform	Fish, Small Verts	Water	Ambusher	Swamp/Marsh, Freshwater
CAAN Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMBE Cup Nectar, Insects Air Hover Gleaner Forest ARAL1 Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian CYLA Cup Nectar, Insects Air Hover Gleaner Shrubland, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMYU Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CALU Cup Insects, Nectar Air Hover Gleaner Shrubland EUFU Cup Nectar, Insects Air Hover Gleaner Forest	NYVI	Platform	Aquatic Inverts, Insects	Water, Ground	Ambusher, Ground Gleaner	Swamp/Marsh, Freshwater
AMBE Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian CYLA Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner CYLA Cup Nectar, Insects Air Hover Gleaner SEPL Cup Nectar, Insects Air Hover Gleaner AMYU Cup Nectar, Insects Air Hover Gleaner STCA Cup Nectar, Insects Air Hover Gleaner STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner CACO Cup Nectar, Insects Air Hover Gleaner CACU Cup Insects, Nectar Air Hover Gleaner Shrubland CALU Cup Nectar, Insects Air Hover Gleaner	SESA	Cup	Nectar, Insects	Air	Hover Gleaner, Hawker	Shrubland, Forest
ARAL1 Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian CYLA Cup Nectar, Insects Air Hover Gleaner Shrubland, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMYU Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CALU Cup Insects, Nectar Air Hover Gleaner Shrubland EUFU Cup Nectar, Insects Air Hover Gleaner Shrubland Forest	CAAN	Cup	Nectar, Insects	Air	Hover Gleaner, Hawker	Forest, Shrubland
LACL Cup Insects, Nectar Air Hover Gleaner, Hawker Forest, Riparian CYLA Cup Nectar, Insects Air Hover Gleaner Shrubland, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMYU Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CACO Cup Insects, Nectar Air Hover Gleaner Shrubland CALU Cup Insects, Nectar Air Hover Gleaner Shrubland EUFU Cup Nectar, Insects Air Hover Gleaner Forest	AMBE	Cup	Nectar, Insects	Air	Hover Gleaner	Forest
CYLA Cup Nectar, Insects Air Hover Gleaner Shrubland, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMYU Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CALU Cup Insects, Nectar Air Hover Gleaner Shrubland EUFU Cup Nectar, Insects Air Hover Gleaner Shrubland	ARAL1	Cup	Nectar, Insects	Air	Hover Gleaner, Hawker	Forest, Shrubland
CYLA Cup Nectar, Insects Air Hover Gleaner Shrubland, Riparian SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMYU Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CALU Cup Insects, Nectar Air Hover Gleaner Shrubland EUFU Cup Nectar, Insects Air Hover Gleaner Shrubland	LACL	Cup	Insects, Nectar	Air .	Hover Gleaner, Hawker	Forest, Riparian
SEPL Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland AMYU Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CALU Cup Insects, Nectar Air Hover Gleaner Shrubland EUFU Cup Nectar, Insects Air Hover Gleaner Forest		Cup	Nectar, Insects	Air	Hover Gleaner	Shrubland, Riparian
AMYU Cup Nectar, Insects Air Hover Gleaner Forest, Shrubland STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CALU Cup Insects, Nectar Air Hover Gleaner Shrubland EUFU Cup Nectar, Insects Air Hover Gleaner Forest		Cup	Nectar, Insects	Air	Hover Gleaner, Hawker	Forest, Shrubland
STCA Cup Nectar, Insects Air Hover Gleaner, Hawker Forest, Shrubland CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CALU Cup Insects, Nectar Air Hover Gleaner Shrubland EUFU Cup Nectar, Insects Air Hover Gleaner Forest		-	Nectar, Insects	Air	Hover Gleaner	Forest, Shrubland
CACO Cup Nectar, Insects Air Hover Gleaner Shrubland CALU Cup Insects, Nectar Air Hover Gleaner Shrubland EUFU Cup Nectar, Insects Air Hover Gleaner Forest						•
CALU Cup Insects, Nectar Air Hover Gleaner Shrubland EUFU Cup Nectar, Insects Air Hover Gleaner Forest					·	
EUFU Cup Nectar, Insects Air Hover Gleaner Forest		•				
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AROO GUP Rectar, insects Aii novel diedrier rorest, Otball	ARCO	Cup	Nectar, Insects	Air	Hover Gleaner	Forest, Urban

COMMON NAME	SCIENTIFIC NAME	LCTA	ALPHA	AOU#	NEO	NEST LOCATION
		CODE	CODE		STAT	
Hummingbird, Rufous	Selasphorus rufus	SERU	RUHU	4330	Α	Woody Lower Canopy
Hummingbird, Violet-crowned	Amazilia violiceps	AMVI	VCHU	4391	C	Woody Upper Canopy
Hummingbird, White-eared	Hylocharis leucotis	HYLE	WEHU	4401	R	Shrub, Woody Lower Canopy
lbis, Glossy	Plegadis falcinellus	PLFA	GLIB	1860	R	Ground, Shrub
Ibis, Scarlet	Eudocimus ruber	EURU	SCIB	1850	R	Woody Upper Canopy
lbis, White	Eudocimus albus	EUAL	WHIB	1840	R	Woody Lower Canopy
lbis, White-faced	Plegadis chihi	PLCH	WFIB	1870	R	Ground, Shrub
Jacana, Northern	Jacana spinosa	JASP	NOJA	2880	R	Floating
Jaeger, Long-tailed	Stercorarius longicaudus	STLO1	LTJA	0380	R	Ground
Jaeger, Parasitic	Stercorarius parasiticus	STPA	PAJA	0370	R	Ground
Jaeger, Pomarine	Stercorarius pomarinus	STPO	POJA	0360	R	Ground
Jay, Blue	Cyanocitta cristata	CYCR	BLJA	4770	R	Woody Lower Canopy
Jay, Brown	Cyanocorax morio	CYMO	BRJA	4832	R	Woody Lower Canopy, Shrub
Jay, Gray	Perisoreus canadensis	PECA	GRAJ	4840	R	Woody Lower Canopy
Jay, Gray-breasted	Aphelocoma ultramarina	APUL	GBJA	4820	R	Woody Lower Canopy
Jay, Green	Cyanocorax yncas	CYYN	GREJ	4830	R	Woody Lower Canopy, Shrub
Jay, Pinyon	Gymnorhinus cyanocephalus	GYCY	PIJA	4920	R	Woody Lower Canopy
Jay, Scrub	Aphelocoma coerulescens	APCO	SCJA	4810	R	Woody Lower Canopy, Shrub
Jay, Steller's	Cyanocitta stelleri	CYST	STJA	4780	R	Woody Lower Canopy
Junco, Dark-eyed	Junco hyemalis	JUHY	DEJU*	5670	В	Ground, Bank
Junco, Yellow-eyed	Junco phaeonotus	JUPH	YEJU	5700	R	Ground, Shrub
Kestrel, American	Falco sparverius	FASP	AMKE	3600	В	Snag, Cliff
Killdeer	Charadrius vociferus	CHVO	KILL	2730	В	Ground
Kingbird, Cassin's	Tyrannus vociferans	TYVO	CAKI	4480	Α	Woody Upper Canopy
Kingbird, Couch's	Tyrannus couchii	TYCO	COKI	4461	С	Woody Lower Canopy
Kingbird, Eastern	Tyrannus tyrannus	TYTY	EAKI	4440	Α	Woody Lower Canopy, Shrub
Kingbird, Gray	Tyrannus dominicensis	TYDO	GRAK	4450	D	Woody Lower Canopy, Shrub
Kingbird, Thick-billed	Tyrannus crassirostris	TYCR	TBKI	4451	С	Woody Upper Canopy
Kingbird, Tropical	Tyrannus melancholicus	TYME	TRKI	4460	С	Woody Lower Canopy
Kingbird, Western	Tyrannus verticalis	TYVE	WEKI	4470	Α	Woody Upper Canopy, Shrub
Kingfisher, Belted	Ceryle alcyon	CEAL	BEKI	3900	В	Bank, Snag
Kingfisher, Green	Chloroceryle americana	CHAM	GKIN	3910	С	Bank
Kingfisher, Ringed	Ceryle torquata	CETO	RIKI	3901	R	Bank
Kinglet, Golden-crowned	Regulus satrapa	RESA	GCKI	7480	R	Woody Upper Canopy
Kinglet, Ruby-crowned	Regulus calendula	RECA	RCKI	7490	В	Woody Upper Canopy
Kiskadee, Great	Pitangus sulphuratus	PISU1	GKIS	4490	R	Woody Lower Canopy, Shrub
	Elanoides forficatus	ELFO	ASTK	3270	Α	Woody Upper Canopy
tailed Kite, Black-shouldered	Elanus caeruleus	ELCA	BSKI	3280	R	Woody Upper Canopy
Kite, Hook-billed	Chondrohierax uncinatus	CHUN	HBKI	3271	R	Woody Lower Canopy
Kite, Mississippi	Ictinia mississippiensis	ICMI	MIKI	3290	Α	Woody Upper Canopy
Kite, Snail	Rostrhamus sociabilis	ROSO	SNKI	3300	R	Woody Lower Canopy, Shrub
Kittiwake, Black-legged	Rissa tridactyla	RITR	BLKI	0400	R	Cliff
Kittiwake, Red-legged	Rissa brevirostris	RIBR	RLKI	0410	R	Cliff
Knot, Red	Calidris canutus	CACA	REKN	2340	R	Ground
Lark, Horned	Eremophila alpestris	ERAL	HOLA	4740	В	Ground
Limpkin	Aramus guarauna	ARGU	LIMP	2070	R	Ground, Shrub
Longspur, Chestnut-collared	Calcarius ornatus	CAOR	CCLO	5380	В	Ground
Longspur, Lapland	Calcarius Iapponicus	CALA	LALO	5360	R	Ground

LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
SERU	Cup	Nectar, Insects	Air	Hover Gleaner, Hawker	Forest, Shrubland
AMVI	Cup	Nectar, Insects	Air	Hover Gleaner	Forest, Riparian
HYLE	Cup	Nectar, Insects	Air	Hover Gleaner, Hawker	Forest, Shrubland
PLFA	Platform	Aquatic Inverts, Insects	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh
EURU	Platform	Aquatic Inverts, Fish	Water	Prober	Swamp/Marsh, Freshwater
EUAL	Platform	Aquatic Inverts, Fish	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh, Freshwater
PLCH	Platform	Aquatic Inverts, Insects	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh, Freshwater
JASP	Platform	Insects	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Swamp/Marsh, Freshwater
STLO1	Scrape	Small Mammals, Birds	Ground, Air	Hover & Pounce, Piracy	Grassland, Tundra
STPA	Scrape	Birds, Small Mammals	Ground, Air	Hover & Pounce, Piracy	Shrubland, Tundra
STPO	Scrape	Small Mammals, Birds	Ground, Air	Low Patrol, Piracy	Swamp/Marsh, Tundra
CYCR	Cup	Insects, Seeds	Ground, Air	Ground Gleaner, Hawker	Forest, Urban
CYMO	Cup	Insects, Small Verts	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Forest Edge
PECA	Cup	Insects, Fruit	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Forest Edge
APUL	Cup	Nuts	Ground	Ground Gleaner	Forest, Shrubland
CYYN	Cup	Insects, Small Verts	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Shrubland, Forest
GYCY	Cup	Nuts, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland, Forest
APCO	Cup	Insects, Nuts	Ground	Ground Gleaner	Shrubland, Forest
CYST	Cup	Nuts, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest
JUHY	Cup, Cavity	Seeds, Insects	Ground, Air	Ground Gleaner, Hawker	Forest, Forest Edge
JUPH	Cup, Cavity	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Shrubland
FASP	Cavity	Insects, Small Verts	Ground, Air	Hover & Pounce, Hawker	Grassland, Cropland
CHVO	Scrape	Insects	Ground	Ground Gleaner	Shoreline, Freshwater
TYVO	Cup	Insects, Fruit	Air, Ground	Hawker, Hover & Pounce	Forest, Shrubland
TYCO	Cup	Insects, Fruit	Air, Ground	Hawker	Riparian, Urban
TYTY	Cup	Insects, Fruit	Air ,	Hawker, Hover Gleaner	Riparian, Forest Edge
TYDO	Cup	Insects, Fruit	Air, Foliage	Hawker, Foliage Gleaner	Shoreline
TYCR	Cup	Insects	Air	Hawker	Riparian
TYME	Cup	Insects, Fruit	Air, Ground	Hawker, Hover & Pounce	Forest, Urban
TYVE	Cup	Insects, Fruit	Air, Ground	Hawker, Hover & Pounce	Grassland, Riparian
CEAL	Burrow, Cavity	Fish, Aquatic Inverts	Water	High Dives	Shoreline, Freshwater
CHAM	Burrow	Fish	Water	High Dives	Freshwater, Swamp/Marsh
CETO	Burrow	Fish	Water	High Dives	Freshwater
RESA	Pendant	Insects, Fruit	Bark, Air	Foliage Gleaner, Hover Gleaner	Forest
RECA	Pendant	Insects, Tree Sap	Foliage, Air	Foliage Gleaner, Hover Gleaner	Forest
PISU1	Sphere	Insects, Fish	Air, Water	Hawker, High Dives	Forest, Riparian
ELFO	Platform	Insects, Small Verts	Air, Ground	Hawker, Swooper	Forest, Swamp/Marsh
ELCA	Platform	Small Mammals, Insects	Ground	Hover & Pounce	Grassland, Riparian
CHUN	Platform	Aquatic Inverts, Insects	Ground, Bark	Swooper, Bark Gleaner	Swamp/Marsh, Forest
ICMI	Saucer	Insects, Small Verts	Air, Ground	Hawker, High Patrol	Riparian, Forest Edge
ROSO	Platform	Aquatic Inverts	Water	Low Patrol, Swooper	Swamp/Marsh, Freshwater
RITR	Cup	Fish, Aquatic Inverts	Water	Surface Dips, High Dives	Pelagic, Coastal
RIBR	Cup	Fish, Aquatic Inverts	Water	High Dives, Hover & Pick	Pelagic, Coastal
CACA	Scrape	Insects, Seeds	Ground	Ground Gleaner, Prober	Tundra
ERAL	Saucer	Seeds, Insects	Ground	Ground Gleaner	Grassland, Cropland
ARGU	Saucer	Aquatic Inverts	Water	Prober, Ambusher	Swamp/Marsh
CAOR	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland
CALA	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland, Shrubland

	CONTINUENCIALA	LCTA	ALPHA	AOTI#	NTEO	NEST LOCATION
COMMON NAME	SCIENTIFIC NAME	CODE	CODE	AUU#	STAT	NESI LOCATION
Longspur, McCown's	Calcarius mccownii	CAMC	MCLO	5390	В	Ground
Longspur, Smith's	Calcarius pictus	CAPI	SMLO	5370	R	Ground
Loon, Arctic	Gavia arctica	GAAR	ARLO	0090	R	Ground
Loon, Common	Gavia immer	GAIM	COLO	0070	R	Ground
Loon, Pacific	Gavia pacifica	GAPA	PALO	0100	R	Ground
Loon, Red-throated	Gavia stellata	GAST2	RTLO	0110	R	Ground
Loon, Yellow-billed	Gavia adamsii	GAAD	YBLO	0080	R	Ground
Magpie, Black-billed	Pica pica	PIPI	BBMA	4750	R	Woody Upper Canopy, Shrub
Magpie, Yellow-billed	Pica nuttalli	PINU	YBMA	4760	R	Woody Upper Canopy
Mallard	Anas platyrhynchos	ANPL	MALL	1320	. R	Ground
Martin, Purple	Progne subis	PRSU	PUMA	6110	Α	Snag, MMS
Meadowlark, Eastern	Sturnella magna	STMA2	EAME	5010	В	Ground
Meadowlark, Western	Sturnella neglecta	STNE1	WEME	5011	В	Ground
Merganser, Common	Mergus merganser	MEME2	COME	1290	R	Woody Upper Canopy, Ground
Merganser, Hooded	Lophodytes cucullatus	LOCU1	HOME	1310	R	Snag, Woody Lower Canopy
Merganser, Red-breasted	Mergus serrator	MESE	RBME	1300	R	Ground
Merlin	Falco columbarius	FACO	MERL	3570	Α	Woody Upper Canopy, Cliff
Mockingbird, Northern	Mimus polyglottos	MIPO	NOMO	7030	В	Shrub, Woody Lower Canopy
Moorhen, Common	Gallinula chloropus	GACH	СОМО	2190	R	Floating, Ground
Murre, Common	Uria aalge	URAA	COMU	0300	R	Cliff
Murre, Thick-billed	Uria lomvia	URLO	TBMU	0310	R	Cliff
Murrelet, Ancient	Synthliboramphus antiquus	SYAN	ANMU	0210	R	Ground
Murrelet, Kittlitz's	Brachyramphus brevirostris	BRBR	KIMU	0240	R	Ground
Murrelet, Marbled	Brachyramphus marmoratus	BRMA	MAMU	0230	R	Ground, Woody Upper Canopy
Murrelet, Xantus'	Synthliboramphus hypoleucus	SYHY	XAMU	0250	R	Ground
Myna, Crested	Acridotheres cristatellus	ACCR	CRMY	4931	R	Woody Upper Canopy, MMS
Nighthawk, Antillean	Chordeiles gundlachii	ÇHGU	ANNI	4201	D	Ground
Nighthawk, Common	Chordeiles minor	CHMI	CONI	4200	Α	Ground
Nighthawk, Lesser	Chordeiles acutipennis	CHAC	LENI	4210	Α	Ground
Nightjar, Buff-collared	Caprimulgus ridgwayi	CARI	BCNI	4161	С	Ground
Noddy, Brown	Anous stolidus	ANST2	BRNO	0790	R	Shrub, Woody Lower Canopy
Nutcracker, Clark's	Nucifraga columbiana	NUCO	CLNU	4910	R	Woody Upper Canopy
Nuthatch, Brown-headed	Sitta pusilla	SIPU	BHNU	7290	R	Snag, Woody Lower Canopy
Nuthatch, Pygmy	Sitta pygmaea	SIPY	PYNU	7300	R	Woody Upper Canopy, Snag
Nuthatch, Red-breasted	Sitta canadensis	SICA1	RBNU	7280	R	Woody Upper Canopy
Nuthatch, White-breasted	Sitta carolinensis	SICA2	WBNU	7270	R	Woody Upper Canopy
Oldsquaw	Clangula hyemalis	CLHY	OLDS	1540	R	Ground
Oriole, Altamira	lcterus gularis	ICGU	ALOR	5031	R	Woody Upper Canopy
Oriole, Audubon's	lcterus graduacauda	ICGR	AUOR	5030	R	Woody Lower Canopy
Oriole, Hooded	lcterus cucullatus	ICCU	HOOR	5050	Α	Woody Upper Canopy, Shrub
Oriole, Northern	Icterus galbula	ICGA	NOOR*	5070	Α	Woody Upper Canopy
Oriole, Orchard	Icterus spurius	ICSP	OROR	5060	Α	Woody Upper Canopy, Shrub
Oriole, Scott's	lcterus parisorum	ICPA	SCOR	5040	Α	Woody Lower Canopy, Shrub
Oriole, Spot-breasted	lcterus pectoralis	ICPE	SPOO	5032	R	Woody Upper Canopy
Osprey	Pandion haliaetus	PAHA	OSPR	3640	R	Woody Upper Canopy, Cliff
Ovenbird	Seiurus aurocapillus	SEAU	OVEN	6740	Α΄	Ground, Woody Lower Canopy
Owl, Barred	Strix varia	STVA	BAOW	3680	R	Snag, Woody Upper Canopy
Owl, Boreal	Aegolius funereus	AEFU	BOOW	3710	R	Snag, Woody Lower Canopy

LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
CAMC	Cup	Seeds, Insects	Ground	Ground Gleaner	Grassland, Cropland
CAPI	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland, Tundra
GAAR '	Platform	Fish, Insects	Water, Ground	Surface Dives, Ground Gleaner	Freshwater, Tundra
GAIM	Platform	Fish, Aquatic Inverts	Water	Surface Dives	Freshwater
GAPA	Platform	Fish, Insects	Water	Surface Dives	Tundra, Pelagic
GAST2	Saucer, Platform	Fish, Aquatic Inverts	Water	Surface Dives	Freshwater, Tundra
GAAD	Saucer	Fish, Aquatic Inverts	Water	Surface Dives	Freshwater, Tundra
PIPI	Sphere	Insects, Carrion	Ground	Ground Gleaner	Shrubland, Riparian
PINU	Sphere	Insects, Carrion	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Riparian
ANPL	Scrape	Seeds, Greens	Water	Dabbler	Freshwater, Swamp/Marsh
PRSU	Cavity	Insects	Air	Aerial Foraging	Grassland, Urban
STMA2	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland, Cropland
STNE1	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland, Cropland
MEME2	Cavity, Crevice	Fish, Aquatic Inverts	Water	Surface Dives	Freshwater, Riparian
LOCU1	Cavity	Fish, Aquatic Inverts	Water	Surface Dives	Freshwater, Swamp/Marsh
MESE	Scrape	Fish, Aquatic Inverts	Water	Surface Dives	Freshwater
FACO	Platform, Cavity	Birds, Small Mammals	Air	Aerial Pursuit, Hawker	Forest, Grassland
MIPO	Cup	Insects, Fruit	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland, Urban
GACH	Platform, Cup	Greens, Aquatic Inverts	Water, Ground	Surface Dips, Ground Gleaner	Swamp/Marsh, Freshwater
URAA	None	Fish, Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
URLO	None	Fish, Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
SYAN	Burrow, Crevice	Aquatic Inverts, Fish	Water	Surface Dives	Coastal, Pelagic
BRBR	None	Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
BRMA	Saucer	Fish, Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
SYHY	Crevice, Burrow	Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
ACCR	Cavity	Insects, Fruit	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Grassland, Urban
CHGU	None	Insects	Air	Aerial Foraging	Grassland
CHMI	None	Insects	Air	Aerial Foraging	Grassland, Urban
CHAC	None	Insects	Air	Aerial Foraging	Shrubland, Shrubland
CARI	None	Insects	Air	Aerial Foraging	Shrubland, Forest
ANST2	Saucer	Fish	Water	Skimmer	Pelagic, Shoreline
NUCO	Cup	Nuts, Seeds	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Forest
SIPU	Cavity	Insects, Seeds	Bark, Air	Bark Gleaner, Hawker	Forest
SIPY	Cavity	Insects, Seeds	Bark, Air	Bark Gleaner, Hover Gleaner	Forest
SICA1	Cavity	Insects, Seeds	Bark, Air	Bark Gleaner, Hawker	Forest
SICA2	Cavity	Insects, Nuts	Bark	Bark Gleaner	Forest, Forest Edge
CLHY	Scrape	Aquatic Inverts, Fish	Water	Surface Dives	Coastal, Tundra
ICGU	Pendant	Insects, Fruit	Foliage	Foliage Gleaner	Forest, Shrubland
ICGR	Pendant	Insects, Fruit	Foliage	Foliage Gleaner	Shrubland, Riparian
ICCU	Pendant	Insects, Nectar	Foliage	Foliage Gleaner	Riparian, Shrubland
ICGA	Pendant	Insects, Fruit	Foliage, Air	Foliage Gleaner, Hawker	Forest Edge, Urban
ICSP	Pendant	Insects, Fruit	Foliage	Foliage Gleaner	Shrubland, Forest
ICPA	Pendant	Insects, Fruit	Foliage	Foliage Gleaner	Shrubland, Riparian
ICPE	Pendant	Fruit, Nectar	Foliage	Foliage Gleaner	Forest, Shrubland
PAHA	Platform	Fish, Small Mammals	Water	High Dives	Freshwater
SEAU	Oven	Insects	Ground	Ground Gleaner	Forest
STVA	Cavity	Small Mammals, Birds	Ground	Low Patrol, Hover & Pounce	Forest, Swamp/Marsh
AEFU	Cavity	Small Mammals, Birds	Ground	Swooper	Forest, Swamp/Marsh

COMMON NAME	SCIENTIFIC NAME	LCTA CODE	ALPHA CODE	AOU#	NEO STAT	NEST LOCATION
Owl, Burrowing	Athene cunicularia	ATCU	BUOW	3780	Α	Ground
Owl, Common Barn	Tyto alba	TYAL	COBO	3650	R	Snag, MMS
Owl, Eastern Screech	Otus asio	OTAS	EASO	3730	R	Snag, Woody Upper Canopy
Owl, Elf	Micrathene whitneyi	MIWH	ELOW	3810	С	Cactus, Woody Upper Canopy
Owl, Ferruginous Pygmy	Glaucidium brasilianum	GLBR	FEPO	3800	R	Snag, Woody Lower Canopy
Owl, Flammulated	Otus flammeolus	OTFL	FLOW	3740	Α	Snag
Owl, Great Gray	Strix nebulosa	STNE	GGOW	3700	R	Woody Upper Canopy
Owl, Great Horned	Bubo virginianus	BUVI	GHOW	3750	R	Woody Upper Canopy, Cliff
Owl, Long-eared	Asio otus	ASOT	LEOW	3660	В	Woody Upper Canopy, Ground
Owl, Northern Hawk	Surnia ulula	SUUL	NOHO	3770	R	Snag, Woody Upper Canopy
Owl, Northern Pygmy	Glaucidium gnoma	GLGN	NOPO	3790	R	Snag, Woody Lower Canopy
Owl, Northern Saw-whet	Aegolius acadicus	AEAC	NSWO	3720	R	Snag, Woody Upper Canopy
Owl, Short-eared	Asio flammeus	ASFL	SEOW	3670	В	Ground
Owl, Snowy	Nyctea scandiaca	NYSC	SNOW	3760	R	Ground
Owl, Spotted	Strix occidentalis	STOC1	SPOW	3690	R	Woody Upper Canopy, Cliff
Owl, Western Screech	Otus kennicotti	OTKE	WESO	3732	R	Snag, Woody Upper Canopy
Owl, Whiskered Screech	Otus trichopsis	OTTR	WHSO	3731	R	Snag
Oystercatcher, American	Haematopus palliatus	HAPA	AMOY	2860	R	Ground
Oystercatcher, Black	Haematopus bachmani	HABA	BLOY	2870	R	Ground
Partridge, Gray	Perdix perdix	PEPE	GRPA*	2881	R	Ground
Parula, Northern	Parula americana	PAAM	NOPA	6480	Α.	Woody Upper Canopy
Parula, Tropical	Parula pitiayumi	PAPI	TRPA	6490	R	Woody Upper Canopy
Pauraque, Common	Nyctidromus albicollis	NYAL	COPA	4190	R	Ground
Pelican, American White	Pelecanus erythrorhynchos	PEER	AWPE	1250	R	Ground
Pelican, Brown	Pelecanus occidentalis	PEOC	BRPE	1260	R	Woody Upper Canopy, Cliff
Petrel, Ashy Storm	Oceanodroma homochroa	OCHO	ASSP	1080	R	Ground
Petrel, Black Storm	Oceanodroma melania	OCME	BLSP	1070	R	Ground, Cliff
Petrel, British Storm	Hydrobates pelagicus	HYPE	BHSP*	1040	R	Ground, Cliff
Petrel, Fork-tailed Storm	Oceanodroma furcata	OCFU	FTSP	1050	R	Cliff
Petrel, Leach's Storm	Oceanodroma leucorhoa	OCLE	LHSP	1060	R	Ground, Bank
Petrel, Least Storm	Oceanodroma microsoma	OCMI	LTSP	1030	R	Ground, Cliff
Petrel, Wilson's Storm	Oceanites oceanicus	OCOC	WISP	1090	R	Ground, Cliff
Pewee, Eastern Wood	Contopus virens	COVI1	EAWP	4610	Α	Woody Upper Canopy
Pewee, Greater	Contopus pertinax	COPE	GRPE	4600	С	Woody Upper Canopy
Pewee, Western Wood	Contopus sordidulus	coso	WEWP	4620	Α	Woody Upper Canopy
Phainopepla	Phainopepla nitens	PHNI	PHAI	6200	Α	Woody Upper Canopy, Shrub
Phalarope, Red	Phalaropus fulicarius	PHFU	REPH	2220	R	Ground
Phalarope, Red-necked	Phalaropus lobatus	PHLO	RNPH	2230	R	Ground
Phalarope, Wilson's	Phalaropus tricolor	PHTR	WIPH	2240	R	Ground
Pheasant, Ring-necked	Phasianus colchicus	PHCO	RNPS*	3091	R	Ground
Phoebe, Black	Sayornis nigricans	SANI	BLPH	4580	R	Cliff, MMS
Phoebe, Eastern	Sayornis phoebe	SAPH	EAPH	4560	В	MMS, Cliff
Phoebe, Say's	Sayornis saya	SASA	SAPH	4570	В	Cliff, MMS
Pigeon, Band-tailed	Columba fasciata	COFA	BTPI	3120	Α	Woody Upper Canopy
Pigeon, Red-billed	Columba flavirostris	COFL1	RBPI	3130	R	Woody Upper Canopy
Pigeon, White-crowned	Columba leucocephala	COLE	WCPI	3140	· D	Woody Lower Canopy
Pintail, Northern	Anas acuta	ANAC	NOPI	1430	R	Ground
Pipit, Red-throated	Anthus cervinus	ANCE	RTPI	6990	R	Ground

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LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT		
ATCU	Burrow	Insects, Small Mammals	Ground	Swooper, Hover & Pounce	Grassland, Urban		
TYAL	Cavity	Small Mammals, Birds	Ground	Low Patrol, Swooper	Grassland, Urban		
OTAS	Cavity	Insects, Small Verts	Ground	Swooper	Forest, Riparian		
MWIN	Cavity	Insects	Ground	Low Patrol, Hover & Pounce	Desert, Shrubland		
GLBR	Cavity	Insects, Small Verts	Ground	Swooper	Desert, Shrubland		
OTFL	Cavity	Insects	Air, Bark	Hawker, Bark Gleaner	Forest		
STNE	Abandoned	Small Mammals, Birds	Ground	Hover & Pounce, Swooper	Forest, Swamp/Marsh		
BUVI	Abandoned	Small Mammals, Birds	Ground	Swooper	Forest, Swamp/Marsh		
ASOT	Abandoned	Small Mammals, Birds	Ground ·	Low Patrol	Forest, Urban		
SUUL	Cavity, Platform	Small Mammals, Birds	Ground	Swooper, Hover & Pounce	Forest, Swamp/Marsh		
BLGN	Cavity	Small Mammals, Insects	Ground	Swooper	Forest		
AEAC	Cavity	Small Mammals, Birds	Ground	Swooper	Forest, Swamp/Marsh		
ASFL	Scrape	Small Mammals, Birds	Ground	Low Patrol, Swooper	Grassland, Swamp/Marsh		
NYSC	Scrape	Small Mammals, Birds	Ground	Swooper	Tundra, Rocky Slope		
STOC1	Cavity, Platform	Small Mammals, Birds	Ground	Swooper	Forest		
OTKE	Cavity	Small Mammals, Insects	Ground	Swooper	Riparian, Shrubland		
OTTR	Cavity	Insects	Ground	Swooper	Forest		
IAPA	Scrape	Aquatic Inverts, Fish	Water	Prober	Coastal, Pelagic		
IABA	Scrape	Aquatic Inverts, Fish	Water	Prober	Coastal, Pelagic		
EPE	Scrape	Seeds, Insects	Ground	Ground Gleaner	Grassland		
MAA	Pendant	Insects	Foliage, Air	Foliage Gleaner, Hover Gleaner	Forest		
API	Pendant	Insects	Foliage, Air	Foliage Gleaner, Hawker	Forest		
IYAL	None	Insects	Air	Aerial Foraging, Hawker	Forest, Forest Edge		
EER	Scrape	Fish, Aquatic Inverts	Water	Surface Dips	Coastal, Pelagic		
EOC	Saucer	Fish	Water	High Dives	Coastal, Pelagic		
CHO	Burrow, Crevice	Fish, Aquatic Inverts	Water	Low Patrol, Surface Dips	Coastal, Pelagic		
CME	Crevice	Aquatic Inverts, Carrion	Water	Scavenger, Low Patrol	Coastal, Pelagic		
IYPE	Burrow, Crevice	Fish, Aquatic Inverts	Water	Scavenger, Low Patrol	Coastal, Pelagic		
CFU	Burrow	Fish, Aquatic Inverts	Water	Scavenger, Low Patrol	Coastal, Pelagic		
CLE	Burrow	Fish, Aquatic Inverts	Water	Scavenger, Low Patrol	Coastal, Pelagic		
CMI	Burrow, Crevice	Greens, Aquatic Inverts	Water	Low Patrol	Coastal, Pelagic		
COC	Burrow, Crevice	Greens, Fish	Water	Scavenger, Low Patrol	Coastal, Pelagic		
OVI1	Cup	Insects, Fruit	Air	Hawker, Hover Gleaner	Forest, Forest Edge		
OPE	Cup	Insects	Air	Hawker	Forest		
oso	Cup	Insects, Fruit	Air	Hawker, Hover Gleaner	Forest, Forest Edge		
INH	Cup	Fruit, Insects	Foliage, Air	Foliage Gleaner, Hawker	Shrubland, Riparian		
HFU	Scrape	Aquatic Inverts, Insects	Water	Surface Dips, Prober	Freshwater, Tundra		
HLO	Scrape	Aquatic Inverts, Seeds	Water	Surface Dips, Prober	Freshwater		
HTR	Scrape	Aquatic Inverts, Seeds	Water	Surface Dips, Prober	Swamp/Marsh		
HCO	Scrape	Insects, Seeds	Ground	Ground Gleaner	Grassland, Cropland		
ANI	Cup	Insects, Fish	Air	Hawker, Hover Gleaner	Riparian, Urban		
APH	Cup	Insects, Fish	Air	Hawker	Riparian, Urban		
ASA	Cup	Insects, Fruit	Air	Hawker, Hover Gleaner	Grassland, Forest		
OFA	Platform	Nuts, Fruit	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Forest		
OFL1	Platform	Seeds, Nuts	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Forest, Riparian		
OLE	Platform	Fruit	Foliage	Foliage Gleaner	Swamp/Marsh		
NAC	Scrape	Seeds, Greens	Water, Ground	Dabbler, Ground Gleaner	Swamp/Marsh, Freshwate		

COMMON NAME	SCIENTIFIC NAME	LCTA CODE	ALPHA CODE	AOU#	NEO STAT	NEST LOCATION
Pipit, Sprague's	Anthus spragueii	ANSP1	SPPI	7000	В	Ground
Pipit, Water	Anthus spinoletta	ANSP	WAPI	6970	В	Ground
Plover, Black-bellied	Pluvialis squatarola	PLSQ	BBPL	2700	R	Ground
Plover, Common Ringed	Charadrius hiaticula	СННІ	CRPL	2750	R	Ground
Plover, Lesser Golden	Pluvialis dominica	PLDO1	LEGP	2720	R	Ground ·
Plover, Mongolian	Charadrius mongolus	CHMO	MOPL	2790	R	Ground
Plover, Mountain	Charadrius montanus	CHMO1	MOUP	2810	Α	Ground
Plover, Piping	Charadrius melodus	CHME	PIPL	2770	R	Ground
Plover, Semipalmated	Charadrius semipalmatus	CHSE	SEPL	2740	R	Ground
Plover, Snowy	Charadrius alexandrinus	CHAL	SNPL	2780	R	Ground
Plover, Wilson's	Charadrius wilsonia	CHWI	WIPL	2800	R	Ground
Poor-will, Common	Phalaenoptilus nuttallii	PHNU	COPW	4180	В	Ground
Prairie-chicken, Greater	Tympanuchus cupido	TYCU	GRPC*	3050	R	Ground
Prairie-chicken, Lesser	Tympanuchus pallidicinctus	TYPA	LEPC*	3070	R	Ground
Ptarmigan, Rock	Lagopus mutus	LAMU	ROPT*	3020	R	Ground
Ptarmigan, White-tailed	Lagopus leucurus	LALE	WTPT*	3040	R	Ground
Ptarmigan, Willow	Lagopus lagopus	LALA	WIPT*	3010	R	Ground
Puffin, Atlantic	Fratercula arctica	FRAR	ATPU	0130	R	Ground, Cliff
Puffin, Horned	Fratercula corniculata	FRCO	HOPU	0140	R	Ground, Cliff
Puffin, Tufted	Fratercula cirrhata	FRCI	TUPU	0120	R	Ground, Cliff
Pyrrhuloxia	Cardinalis sinuatus	CASI	PYRR	5940	R	Shrub, Woody Lower Canopy
Quail, California	Callipepla californica	CACA1	CAQU*	2940	R	Ground
Quail, Gambel's	Callipepla gambelii	CAGA1	GAQU*	2950	R	Ground
Quail, Montezuma	Cyrtonyx montezumae	CYMO1	MZQU*	2960	R	Ground
Quail, Mountain	Oreortyx pictus	ORPI	MNQU*	2920	R	Ground
Quail, Scaled	Callipepla squamata	CASQ	SCQU*	2930	R	Ground
Rail, Black	Laterallus jamaicensis	LAJA	BLRA	2160	R	Ground
Rail, Clapper	Rallus longirostris	RALO	CLRA	2110	R	Ground
Rail, King	Rallus elegans	RAEL	KIRA	2080	R	Ground
Rail, Virginia	Rallus limicola	RALI	VIRA	2120	R	Ground
Rail, Yellow	Coturnicops noveboracensis	CONO	YERA	2150	R	Ground
Raven, Chihuahuan	Corvus cryptoleucus	COCR1	CHRA	4870	R	Woody Upper Canopy, Shrub
Raven, Common	Corvus corax	COCO2	CORA	4860	R	Cliff, Woody Upper Canopy
Razorbill	Alca torda	ALTO	RAZO	0320	R	Cliff
Redhead	Aythya americana	AYAM	REDH	1460	R	Floating
Redpoll, Common	Carduelis flammea	CAFL	CORE	5280	R	Shrub, Ground
Redpoll, Hoary	Carduelis hornemanni	CAHO	HORE	5270	R	Shrub, Ground
Redstart, American	Setophaga ruticilla	SERU1	AMRE	6870	Α	Woody Lower Canopy, Shrub
Redstart, Painted	Myioborus pictus	MYPI	PARE	6880	С	Ground, Bank
Roadrunner, Greater	Geococcyx californianus	GECA1	GRRO	3850	R	Woody Lower Canopy, Shrub
Robin, American	Turdus migratorius	TUMI	AMRO	7610	В	Woody Lower Canopy
Sanderling	Calidris alba	CAAL	SAND	2480	R	Ground
Sandpiper, Bairds	Calidris bairdii	CABA	BASA	2410	R	Ground
Sandpiper, Buff-breasted	Tryngites subruficollis	TRSU	BB\$A	2620	R	Ground
Sandpiper, Curlew	Calidris ferruginea	CAFE	CUSA	2440	R	Ground
Sandpiper, Least	Calidris minutilla	CAMI1	LESA	2420	R	Ground
	Onlidria malamatan	CAME1	PESA	2390	R	Ground
Sandpiper, Pectoral	Calidris melanotos	OAME	FLOA	2000		around

LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
ANSP1	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland
ANSP	Cup	Insects, Aquatic Inverts	Ground, Air	Ground Gleaner, Hawker	Shoreline, Tundra
PLSQ	Scrape	Insects	Ground, Water	Ground Gleaner, Prober	Coastal, Tundra
СННІ	Scrape	Insects	Ground, Water	Ground Gleaner, Prober	Coastal, Tundra
PLDO1	Scrape	Insects	Ground, Water	Ground Gleaner, Prober	Coastal, Tundra
СНМО	Scrape	Insects	Ground	Ground Gleaner	Coastal, Tundra
CHMO1	Scrape	Insects	Ground, Water	Ground Gleaner	Grassland
СНМЕ	Scrape	Aquatic Inverts, Insects	Ground, Water	Ground Gleaner, Prober	Coastal, Freshwater
CHSE	Scrape	Aquatic Inverts, Insects	Ground, Water	Ground Gleaner	Coastal, Tundra
CHAL	Scrape	Insects, Aquatic Inverts	Ground, Water	Ground Gleaner, Prober	Coastal, Freshwater
CHWI	Scrape	Aquatic Inverts, Insects	Water	Prober	Coastal
PHNU	Scrape	Insects	Air	Aerial Foraging, Hover Gleaner	Shrubland
TYCU	Scrape	Seeds, Insects	Ground	Ground Gleaner	Grassland
TYPA	Scrape	Insects, Nuts	Ground	Ground Gleaner	Grassland
_AMU	Scrape	Greens, Fruit	Ground	Ground Gleaner	Rocky Slope, Tundra
ALE	Scrape	Greens, Insects	Ground	Ground Gleaner	Tundra
.ALA	Scrape	Greens, Seeds	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Shrubland, Tundra
RAR	Burrow, Crevice	Fish, Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
RCO	Burrow, Crevice	Fish, Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
RCI	Burrow, Crevice	Fish, Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
ASI	Cup	Seeds, Insects	Ground	Ground Gleaner	Shrubland
ACA1	Scrape	Seeds, Nuts	Ground	Ground Gleaner	Shrubland, Cropland
AGA1	Scrape	Seeds, Greens	Ground	Ground Gleaner, Foliage Browser	Shrubland, Riparian
YMO1	Scrape	Greens, Insects	Ground	Digging, Ground Gleaner	Forest
DRPI	Scrape	Seeds, Insects	Ground	Ground Gleaner	Forest, Shrubland
ASQ	Scrape	Seeds, Greens	Ground	Ground Gleaner, Foliage Browser	Shrubland, Grassland
AJA	Cup	Insects, Seeds	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh
RALO	Platform	Aquatic Inverts, Insects	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh
RAEL	Platform	Aquatic Inverts, Insects	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh
RALI	Saucer	Insects, Aquatic Inverts	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh
ONO	Saucer	Aquatic Inverts, Insects	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh, Freshwate
OCR1	Cup	Insects, Carrion	Ground	Scavenger, Ground Gleaner	Grassland, Shrubland
00002	•	Carrion, Small Verts	Ground	Scavenger, Ground Gleaner	Forest, Grassland
LTO	Crevice	Fish, Aquatic Inverts	Water	Surface Dives	Coastal, Pelagic
YAM	Cup	Greens, Aquatic Inverts	Water	Surface Dives	Swamp/Marsh, Freshwate
CAFL	Cup, Crevice	Seeds, Insects	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Forest, Tundra
CAHO	Cup, Crevice	Seeds, Insects	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Shrubland, Tundra
ERU1		Insects, Seeds	Air, Foliage	Hover Gleaner, Foliage Gleaner	Forest, Forest Edge
YPI	Cup		. •	. •	
ECA1	Cup	Insects	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest, Riparian
	Platform	Insects, Small Mammals	Ground Fallace	Ground Gleaner	Shrubland, Desert
UMI	Cup	Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Urban
AAL	Scrape	Insects, Greens	Water, Ground	Prober, Ground Gleaner	Coastal, Tundra
ABA	Scrape	Insects	Ground	Ground Gleaner	Shoreline, Tundra
RSU	Scrape	Insects, Seeds	Ground	Ground Gleaner	Shoreline, Tundra
AFE	Burrow, Scrape	Insects, Aquatic Inverts	Water	Prober	Coastal
AMI1	Scrape	Insects, Aquatic Inverts	Ground, Water	Ground Gleaner, Prober	Coastal, Swamp/Marsh
AME1	Scrape	Insects	Water, Ground	Prober, Ground Gleaner	Coastal, Tundra
CAMA	Scrape	Insects, Aquatic Inverts	Ground, Water	Ground Gleaner, Prober	Coastal, Tundra

COMMON NAME	SCIENTIFIC NAME	LCTA	ALPHA	AOU#	NEO	NEST LOCATION
		CODE	CODE		STAT	
Sandpiper, Rock	Calidris ptilocnemis	CAPT	ROSA	2360	R	Ground
Sandpiper, Semipalmated	Calidris pusilla	CAPU	SESA	2460	R	Ground
Sandpiper, Solitary	Tringa solitaria	TRSO	SOSA	2560	R	Woody Upper Canopy
Sandpiper, Spotted	Actitis macularia	ACMA	SPSA	2630	R	Ground
Sandpiper, Stilt	Calidris himantopus	CAHI	STSA	2330	R	Ground
Sandpiper, Upland	Bartramia longicauda	BALO	UPSA	2610	Α	Ground
Sandpiper, Western	Calidris mauri	CAMA1	WESA	2470	R	Ground
Sandpiper, White-rumped	Calidris fuscicollis	CAFU	WRSA	2400	R	Ground
Sandpiper, Wood	Tringa glareola	TRGL	WOSA*	2571	R	Ground, Woody Lower Canopy
Sapsucker, Red-breasted	Sphyrapicus ruber	SPRU	RBSA	4030	В	Woody Upper Canopy, Snag
Sapsucker, Red-naped	Sphyrapicus nuehalis	SPNU	RNSA	4021	В	Woody Lower Canopy
Sapsucker, Williamson's	Sphyrapicus thyroideus	SPTH	WISA	4040	В	Woody Upper Canopy
Sapsucker, Yellow-bellied	Sphyrapicus varius	SPVA1	YBSA	4020	В	Woody Upper Canopy
Scaup, Greater	Aythya marila	AYMA	GRSC	1480	R	Ground, Floating
Scaup, Lesser	Aythya affinis	AYAF	LESC	1490	R	Ground
Scoter, Black	Melanitta nigra	MENI	BLSC	1630	R	Ground
Scoter, Surf	Melanitta perspicillata	MEPE	SUSC	1660	R	Ground
Scoter, White-winged	Melanitta fusca	MEFU	wwsc	1650	R	Ground
Shearwater, Audubon's	Puffinus Iherminieri	PULH	AUSH	0920	R	Ground, Cliff
Shearwater, Black-vented	Puffinus opisthomelas	PUOP	BVSH	0930	R	Ground, Cliff
Shearwater, Buller's	Puffinus bulleri	PUBU	BUSH	0962	R	Ground
Shearwater, Cory's	Calonectris diomedea	CADI	COSH	0880	R	Ground, Cliff
Shearwater, Greater	Puffinus gravis	PUGR	GRSH	0890	R	Ground
Shearwater, Manx	Puffinus puffinus	PUPU	MASH	0900	R	Cliff
Shearwater, Pink-footed	Puffinus creatopus	PUCR	PFSH	0910	R	Ground
Shearwater, Short-tailed	Puffinus tenuirostris	PUTE	SHOS	0960	R	Ground
Shearwater, Sooty	Puffinus griseus	PUGR1	SOSH	0950	R	Ground
Shoveler, Northern	Anas clypeata	ANCL	NSHO	1420	R	Ground
Shrike, Loggerhead	Lanius ludovicianus	LALU	LOSH ,	6220	В	Woody Lower Canopy, Shrub
Shrike, Northern	Lanius excubitor	LAEX	NSHR	6210	R	Woody Lower Canopy
Siskin, Pine	Carduelis pinus	CAPI1	PISI	5330	В	Woody Upper Canopy
Skimmer, Black	Rynchops niger	RYNI	BLSK	0800	R	Ground
Skua, Great	Catharacta skua	CASK	GRSK	0350	R	Ground, Cliff
Skua, South Polar	Catharacta maccormicki	CAMA3	SPSK	0352	R	Ground, Cliff
Skylark, Eurasian	Alauda arvensis	ALAR	EUSK	4730	R	Ground
Snipe, Common	Gallinago gallinago	GAGA	COSN	2300	R	Ground
Solitaire, Townsend's	Myadestes townsendi	MYTO	TOSO	7540	В	Ground, Snag
Sora	Porzana carolina	POCA1	SORA	2140	R	Floating, Ground
Sparrow, American Tree	Spizella arborea	SPAR2	ATSP	5590	R	Ground, Shrub
Sparrow, Bachman's	Aimophila aestivalis	AIAE	BACS	5750	R	Ground
Sparrow, Baird's	Ammodramus bairdii	AMBA	BAIS	5450	Α	Ground
Sparrow, Black-chinned	Spizella atrogularis	SPAT	BCSP	5650	Α	Shrub, Woody Lower Canopy
Sparrow, Black-throated	Amphispiza bilineata	AMBI	BTSP	5730	В	Shrub, Cactus
Sparrow, Botteri's	Aimophila botterii	AIBO	BOSP	5760	С	Ground
Sparrow, Brewer's	Spizella breweri	SPBR1	BRSP	5620	Α	Shrub, Woody Lower Canopy
Sparrow, Cassin's	Aimophila cassinii	AICA1	CASP	5780	В	Ground, Šhrub
Sparrow, Chipping	Spizella passerina	SPPA2	CHSP	5600	Α	Woody Lower Canopy
Sparrow, Clay-colored	Spizella pallida	SPPA1	CCSP	5610	Α	Shrub, Ground

LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
CAPT	Scrape	Insects, Aquatic Inverts	Water	Prober	Coastal
CAPU	Scrape	Insects, Aquatic Inverts	Ground, Water	Ground Gleaner, Prober	Tundra, Coastal
TRSO	Cup	Insects, Aquatic Inverts	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh, Freshwater
ACMA	Scrape	Insects, Aquatic Inverts	Ground	Ground Gleaner	Shoreline
CAHI	Scrape	Aquatic Inverts, Greens	Water	Prober	Tundra, Swamp/Marsh
BALO	Scrape	Insects, Seeds	Ground	Ground Gleaner	Grassland, Forest
CAMA1	Scrape	Insects, Aquatic Inverts	Ground, Water	Ground Gleaner, Prober	Coastal
CAFU	Scrape	Insects, Seeds	Ground, Water	Ground Gleaner, Prober	Tundra, Coastal
TRGL	Saucer	Insects	Water, Ground	Prober, Ground Gleaner	Coastal, Tundra
SPRU	Cavity	Insects, Tree Sap	Bark, Air	Bark Gleaner, Hawker	Forest
SPNU	Cavity	Insects, Tree Sap	Bark, Air	Bark Gleaner, Hawker	Forest, Riparian
SPTH	Cavity	Insects, Tree Sap	Bark, Ground	Bark Gleaner, Ground Gleaner	Forest
SPVA1	Cavity	Insects, Tree Sap	Bark, Air	Bark Gleaner, Hawker	Forest
AYMA	Scrape	Aquatic Inverts, Greens	Water	Surface Dives	Freshwater, Swamp/Marsh
AYAF	Scrape	Aquatic Inverts, Greens	Water	Surface Dives	Freshwater, Swamp/Marsh
.MENI	Scrape	Aquatic Inverts, Greens	Water	Surface Dives	Freshwater, Swamp/Marsh
MEPE	Scrape	Aquatic Inverts, Greens	Water	Surface Dives	Freshwater, Swamp/Marsh
MEFU	Scrape	Aquatic Inverts, Greens	Water	Surface Dives	Freshwater
PULH	Burrow, Crevice	Fish, Aquatic Inverts	Water	Scavenger, Low Patrol	Coastal, Pelagic
PUOP	Burrow	Fish, Aquatic Inverts	Water	Scavenger, Low Patrol	Coastal, Pelagic
PUBU	Burrow	Fish, Aquatic Inverts	Water	Scavenger, Low Patrol	Coastal, Pelagic
CADI	Burrow, Crevice	Fish, Aquatic Inverts	Water	Scavenger, Low Patrol	Coastal, Pelagic
PUGR	Burrow	Fish, Aquatic Inverts	Water	Scavenger, Low Patrol	Coastal, Pelagic
PUPU	Burrow	Fish, Aquatic Inverts	Water	Scavenger, Low Patrol	Coastal, Pelagic
PUCR	Burrow	Fish, Aquatic Inverts	Water	Scavenger, Low Patrol	Coastal, Pelagic
PUTE	Burrow	Fish	Water	Scavenger, Low Dives	Coastal, Pelagic
PUGR1	Burrow	Fish, Aquatic Inverts	Water	Scavenger, Low Patrol	Coastal, Pelagic
ANCL	Scrape	Greens, Aquatic Inverts	Water	Surface Dips	Swamp/Marsh
LALU	Cup	Insects, Small Verts	Ground, Air	Swooper, Aerial Pursuit	Shrubland, Forest
LAEX	Cup	Birds, Small Mammals	Ground, Air	Swooper, Aerial Pursuit	Forest, Shrubland
CAPI1	Saucer	Seeds, Insects	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Forest, Urban
RYNI	Scrape	Fish, Aquatic Inverts	Water	Skimmer	Coastal, Pelagic
CASK	Scrape	Fish, Birds	Water, Air	Scavenger, Piracy	Coastal, Pelagic
CAMA3	Scrape	Fish, Birds	Water, Air	Scavenger, Piracy	Coastal, Pelagic
ALAR	Saucer	Seeds, Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Grassland
GAGA	Scrape	Insects	Water	Prober	Swamp/Marsh
MYTO	Cup, Cavity	Insects, Fruit	Air, Foliage	Hawker, Foliage Gleaner	Forest
POCA1	Saucer	Seeds, Insects	Ground, Water	Ground Gleaner, Prober	Swamp/Marsh
SPAR2	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Grassland, Shrubland
AIAE	Cup	Seeds, Insects	Ground	Ground Gleaner	Forest, Shrubland
AMBA	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland
SPAT	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland
AMBI	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland
AIBO	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland, Shrubland
SPBR1	Cup	Insects, Seeds	Ground	Ground Gleaner	Shrubland
AICA1	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland, Shrubland
SPPA2	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Forest Edge
SPPA1	Cup	Insects, Seeds	Ground	Ground Gleaner	Shrubland, Forest Edge

COMMON NAME	SCIENTIFIC NAME	LCTA	ALPHA	AOTT#	NEO	NEST LOCATION
COMMON NAME	SCIENTIFIC NAME	CODE	CODE	AUUW	STAT	NEST BOCATION
Sparrow, Eurasian Tree	Passer montanus	PAMO1	ETSP	6883	R	Woody Upper Canopy
Sparrow, Field	Spizella pusilla	SPPU1	FISP	5630	R	Ground, Shrub
Sparrow, Five-striped	Amphispiza quinquestriata	AMQU	FSSP	5742	R	Shrub, Ground
Sparrow, Fox	Passerella iliaca	PAIL	FOSP	5850	В	Ground, Shrub
Sparrow, Golden-crowned	Zonotrichia atricapilla	ZOAT	GCSP	5570	R	Ground, Woody Lower Canopy
Sparrow, Grasshopper	Ammodramus savannarum	AMSA	GRSP	5460	Α	Ground
Sparrow, Harris'	Zonotrichia querula	ZOQU	HASP	5530	R	Ground
Sparrow, Henslow's	Ammodramus henslowii	AMHE	HESP	5470	R	Ground
Sparrow, House	Passer domesticus	PADO1	HOSP	6882	R	MMS, Woody Upper Canopy
Sparrow, Lark	Chondestes grammacus	CHGR	LASP	5520	Α	Ground, Shrub
Sparrow, Le Conte's	Ammodramus leconteii	AMLE	LCSP	5480	R	Ground
Sparrow, Lincoln's	Melospiza lincolnii	MELI	LISP	5830	Α	Ground
Sparrow, Olive	Arremonops rufivirgatus	ARRU	OLSP	5860	R	Shrub, Cactus
Sparrow, Rufous-crowned	Aimophila ruficeps	AIRU	RCSP	5800	R	Ground, Shrub
Sparrow, Rufous-winged	Aimophila carpalis	AICA	RWSP	5790	R	Shrub, Cactus
Sparrow, Sage	Amphispiza belli	AMBE1	SAGS	5740	В	Shrub, Ground
Sparrow, Savannah	Passerculus sandwichensis	PASA	SAVS	5420	В	Ground
Sparrow, Seaside	Ammodramus maritimus	AMMA3	SESP	5500	R	Ground, Shrub
Sparrow, Sharp-tailed	Ammodramus caudacutus	AMCA1	STSP	5490	R	Ground, Shrub
Sparrow, Song	Melospiza melodia	MEME	SOSP	5810	8	Ground, Shrub
Sparrow, Swamp	Melospiza georgiana	MEGE	SWSP	5840	В	Shrub, Ground
Sparrow, Vesper	Pooecetes gramineus	POGR1	VESP	5400	В	Ground
Sparrow, White-crowned	Zonotrichia leucophrys	ZOLE	WCSP	5540	В	Shrub, Ground
Sparrow, White-throated	Zonotrichia albicollis	ZOAL	WTSP	5580	В	Ground, Shrub
Spoonbill, Roseate	Ajaia ajaja	AJAJ	ROSP	1830	R	Woody Lower Canopy, Shrub
Starling, European	Sturnus vulgaris	STVU	EUST	4930	R	Woody Upper Canopy, MMS
Stilt, Black-necked	Himantopus mexicanus	HIME	BNST	2260	R	Ground
Stork, Wood	Mycteria americana	MYAM	WOST	1880	R	Woody Upper Canopy
Surfbird	Aphriza virgata	APVI	SURF	2820	R	Ground
Swallow, Bank	Riparia riparia	RIRI	BANS	6160	Α	Bank
Swallow, Barn	Hirundo rustica	HIRU	BARS	6130	Α	MMS
Swallow, Cave	Hirundo fulva	HIFU	CASW	6121	С	Cave, MMS
Swallow, Cliff	Hirundo pyrrhonota	HIPY	CLSW	6120	Α	MMS, Cliff
Swallow, Northern Rough- winged	Stelgidopteryx serripennis	STSE	NRWS	6170	Α	Bank, Cliff
Swallow, Tree	Tachycineta bicolor	TABI	TRES	6140	В	Snag, Woody Upper Canopy
Swallow, Violet-green	Tachycineta thalassina	TATH	VGSW	6150	Α	Snag, Woody Upper Canopy
Swan, Mute	Cygnus olor	CYOL	MUSW	1782	R	Ground
Swan, Trumpeter	Cygnus buccinator	CYBU	TRUS	1810	R	Ground
Swan, Whistling	Cygnus columbianus	CYCO1	WHSW	1.800	R	Ground
Swan, Whooper	Cygnus cygnus	CYCY	WHOS	1790	R	Ground
Swift, Black	Cypseloides niger	CYNI	BLSW	4220	Α	Cliff
Swift, Chimney	Chaetura pelagica	CHPE	CHSW	4230	Α	MMS, Woody Upper Canopy
Swift, Vaux's	Chaetura vauxi	CHVA	VASW	4240	Α	Snag, MMS
Swift, White-throated	Aeronautes saxatalis	AESA	WTSW	4250	Α	Cliff
Tanager, Hepatic	Piranga flava	PIFL	HETA	6090	Α	Woody Upper Canopy
Tanager, Scarlet	Piranga olivacea	PIOL	SCTA	6080	Α	Woody Upper Canopy
Tanager, Summer	Piranga rubra	PIRU	SUTA	6100	Α	Woody Upper Canopy
Tanager, Western	Piranga ludoviciana	PILU	WETA	6070	Α	Woody Upper Canopy

LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
PAMO1	Cavity	Seeds, Insects	Ground	Ground Gleaner	Forest, Urban
SPPU1	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland, Forest Edge
AMQU	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland, Grassland
PAIL	Cup	Insects, Seeds	Ground	Ground Gleaner	Forest, Forest Edge
ZOAT	Cup	Insects, Seeds	Ground	Ground Gleaner	Shrubland
AMSA	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland, Cropland
ZOQU	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland, Forest
AMHE	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland, Shrubland
PADO1	Cavity, Sphere	Seeds, Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Urban, Cropland
CHGR	Cup	Seeds, Insects	Ground	Ground Gleaner	Grassland, Shrubland
AMLE	Cup	Insects, Seeds	Ground	Ground Gleaner	Swamp/Marsh
MELI	Cup	Insects, Seeds	Ground -	Ground Gleaner	Swamp/Marsh, Riparian
ARRU	Sphere	Insects, Seeds	Ground	Ground Gleaner	Shrubland, Riparian
AIRU	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland, Grassland
AICA	Cup	Insects, Seeds	Foliage, Air	Foliage Gleaner, Hawker	Shrubland, Grassland
AMBE1	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland
PASA	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland, Swamp/Marsh
AMMA3	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Swamp/Marsh
AMCA1	Cup	Insects, Seeds	Ground	Ground Gleaner	Swamp/Marsh
MEME	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Riparian, Forest Edge
MEGE	Cup	Insects, Seeds	Ground	Ground Gleaner	Swamp/Marsh
POGR1	Cup	Insects, Seeds	Ground	Ground Gleaner	Grassland, Shrubland
ZOLE	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Shrubland, Urban
ZOAL	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Forest Edge
AJAJ	Platform	Fish, Aquatic Inverts	Water	Prober	Swamp/Marsh, Freshwater
STVU	Cavity	Insects, Fruit	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Grassland, Urban
HIME	Scrape	Aquatic Inverts, Insects	Water, Ground	Prober, Ground Gleaner	Swamp/Marsh, Freshwater
MYAM	Platform	Fish, Aquatic Inverts	Water	Prober	Swamp/Marsh, Riparian
APVI	Scrape	Insects, Aquatic Inverts	Ground, Water	Ground Gleaner, Prober	Coastal
RIRI	Burrow	Insects	Air	Aerial Foraging	Freshwater, Grassland
HIRU	Cup	Insects, Fruit	Air	Aerial Foraging	Freshwater, Grassland
HIFU	Cup	Insects	Air	Aerial Foraging	Freshwater, Grassland
HIPY	Cup	Insects, Fruit	Air	Aerial Foraging	Freshwater, Grassland
STSE	Burrow, Crevice	Insects	Air	Aerial Foraging	Freshwater, Grassland
TABI	Cavity	Insects, Fruit	Air, Foliage	Aerial Foraging, Foliage Gleaner	Freshwater, Grassland
TATH	Cavity	Insects	Air	Aerial Foraging	Forest
CYOL	Platform	Greens, Aquatic Inverts	Water	Surface Dips, Dabbler	Freshwater, Swamp/Marsh
CYBU	Platform	Greens, Aquatic Inverts	Water	Surface Dips, Dabbler	Freshwater, Swamp/Marsh
CYCO1	Platform	Greens, Aquatic Inverts	Water	Surface Dips, Dabbler	Freshwater, Tundra
CYCY	Platform	Greens, Aquatic Inverts	Water	Surface Dips, Dabbler	Coastal, Tundra
CYNI	Saucer	Insects	Air	Aerial Foraging	Rocky Slope, Shoreline
CHPE	Saucer	Insects	Air	Aerial Foraging	Forest, Urban
CHVA	Saucer	Insects	Air	Aerial Foraging	Forest
AESA	Crevice	Insects	Air	Aerial Foraging	Rocky Slope, Shoreline
PIFL	Saucer	Insects, Fruit	Foliage, Air	Foliage Gleaner, Hawker	Forest, Riparian
PIOL	Saucer	Insects, Fruit	Air, Foliage	Hover Gleaner, Foliage Gleaner	Forest
PIRU	Cup	Insects, Fruit	Foliage, Air	Foliage Gleaner, Hawker	Forest, Riparian
PILU	Cup	Insects, Fruit	Foliage, Air	Foliage Gleaner, Hawker	Forest

Tattler, Wandering			T 000 1	A V P :	1077	\ TE^	NECET OCAETORY
Tatle, Wandering	COMMON NAME	SCIENTIFIC NAME	LCTA		AOU#		NEST LOCATION
Teal, Blue-winged	Tottler Wondering	Hotoroscelus incanus			2590		Ground
Teal, Cinnamon	· · · · · · · · · · · · · · · · · · ·						
Teal, Green-winged	,						
Tem, Aleutian Starna aleutica STAL1 ALTE 0730 R Ground		· ·					
Tem, Arcicle Sterna paradisaea STPA1 ARTE 0710 R Ground Tem, Black Childonias niger CHNI BLTE 0770 R Floating, Ground Tem, Caspian Stema caspia STCAI CATE 0840 R Ground Tem, Common Stema hirundo STHI COTE 0700 R Ground Tem, Coll-billed Stema finatoria STFI EUT 0660 R Ground, Floating Tem, Coll-billed Stema inilotica STNI GBTE 0630 R Ground, Floating Tem, Coll-billed Stema annilotica STNI LETE 0740 R Ground Tem, Royal Stema annilotica STNA LETE 0740 R Ground Tem, Royal Stema annilotica STSA STSA STG GOST R Ground Tem, Sooty Stema function Total stema annilotica STSA STSA STB STD R Ground Tem, Seasonal </td <td>· ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	· ·						
Term, Black	•						
Tern, Caspian Sterma caspia STCA1 CATE 0640 R Ground		•					
Tem, Common		•					. .
Tem, Elegant Stema elegans STEL ELTE 0660 R Ground	, ·	•					
Tem, Forster's Sterna Indicia STRO FOTE 0690 R Floating, Ground	•						
Tern, Gull-billed Sterna nilotica STNI GBTE 0630 R Ground, Floating Tern, Least Sterna antillarum STAN1 LETE 0740 R Ground Tern, Roseate Sterna dougallii STDO ROST 0720 R Ground Tern, Rosate Sterna funciona STMA1 ROYT 0650 R Ground Tern, Sooty Sterna funciona STSA SATE 0670 R Ground Tern, Sooty Sterna funciona STSA SATE 0670 R Ground Tern, Sooty Sterna funciona STSA SATE 0670 R Ground Tern, Sooty Sterna funciona STSA SATE 0670 R Ground Ternsher, Calloria Toxostorma comanderi TOBE ERTH 7080 B Shrub, Woody Lower Canopy Thrasher, Calloria Toxostorma courriorstre TOCU CBTH 7100 R Shrub, Woody Lower Canopy Thrasher, Long-billed	•		_				
Tem, Roseate	·						-
Tem, Roseate Stema dougalili STDO ROST 0720 R Ground Tem, Royal Stema maxima STMAI ROYT 0850 R Ground Tem, Sandwich Stema sandvicensis STSA SATE 0670 R Ground Tem, Sooty Stema fuscata STFU SOTE 0750 R Ground Thrasher, Bendire's Toxostoma bendirei TOBE BETH 7080 B Shrub, Woody Lower Canopy Thrasher, California Toxostoma curvirostre TOCHU BRTH 7050 R Shrub, Woody Lower Canopy Thrasher, Crissal Toxostoma dorsale TODO CRTH 7100 R Shrub, Woody Lower Canopy Thrasher, Le Contle's Toxostoma longirostre TOCU CBTH 7070 R Shrub, Woody Lower Canopy Thrasher, Sage Oreoscoptes montanus ORMO SATH 7060 R Shrub, Woody Lower Canopy Thrush, Gray-cheeked Catharus sutulatus CAMI2 GCTH 7570 A <td< td=""><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	•						
Tem, Royal Stema maxima STMAI ROYT 0650 R Ground Tem, Sandwich Stema sandvicensis STSA SATE 0670 R Ground Tem, Sooty Stema fuscata STFU SOTE 0750 R Ground Thrasher, Bendire's Toxostoma bendirei TOBE BETH 7080 B Shrub, Woody Lower Canopy Thrasher, Brown Toxostoma redrivirum TORU BRTH 7050 R Shrub, Woody Lower Canopy Thrasher, Gallornia Toxostoma drosrale TODO CRTH 7100 R Shrub, Woody Lower Canopy Thrasher, Curve-billed Toxostoma curvirostre TOCU CBTH 7070 R Shrub, Woody Lower Canopy Thrasher, Long-billed Toxostoma lecontei TOLE LCTH 7110 R Shrub, Woody Lower Canopy Thrasher, Sage Oveoscoptes montanus ORMO SATH 7020 B Shrub, Woody Lower Canopy Thrush, Hermit Catharus ustulatus CAMI2 GCTH 7570							
Tern, Sandwich Sterna sandvicensis STSA SATE 0670 R Ground Tern, Sooty Sterna fuscata STFU SOTE 0750 R Ground Thrasher, Bendire's Toxostoma bendirei TOBE BETH 7080 B Shrub, Woody Lower Canopy Thrasher, Brown Toxostoma rufum TORU BRTH 7050 R Shrub, Woody Lower Canopy Thrasher, California Toxostoma redivivum TORE CATH 7100 R Shrub, Woody Lower Canopy Thrasher, Crissal Toxostoma dorsale TODO CRTH 7120 R Shrub, Woody Lower Canopy Thrasher, Curve-billed Toxostoma curvirostre TOCU CBTH 7070 R Shrub, Woody Lower Canopy Thrasher, Le Conte's Toxostoma lecontei TOLE LCTH 7110 R Shrub, Woody Lower Canopy Thrasher, Long-billed Toxostoma lecontei TOLE LCTH 7110 R Shrub, Woody Lower Canopy Thrasher, Sage Oreoscoptes montanus Thrush, Sayainson's Catharus guitatus CAMI2 GCTH 7570 A Shrub, Woody Lower Canopy Thrush, Hermit Catharus guitatus CAMI2 GCTH 7570 A Shrub, Woody Lower Canopy Thrush, Swainson's Catharus sutulatus CAUS SWTH 7580 A Shrub, Woody Lower Canopy Thrush, Varied Ixoreus naevius IXNA VATH 7630 R Woody Lower Canopy Thrush, Varied Parus wollweberi PAWO BRTH 7340 R Woody Lower Canopy Titmouse, Bridled Parus wollweberi PAWO BRTH 7340 R Woody Lower Canopy Titmouse, Plain Parus inormatus PAIN PLIN 7310 R Woody Lower Canopy Titmouse, Plain Parus inormatus PAIN PLIN 7330 R Woody Lower Canopy Towhee, Abert's Piplio aberti PAB ABTO 5920 R Shrub, Woody Lower Canopy Towhee, Brown Piplio Iuscus PIER RSTO 5870 B Ground, Shrub Towhee, Brown Piplio Iuscus PIER RSTO 5870 B Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Ruddy Arenaria interpres ARIN NBTY 4720 C Woody Upper Canopy Verdin Auriparus flaviceps AUFL VERD 7480 R Shrub, Sorund	•	•					
Tern, Sooty Sterna fuscata STFU SOTE 0750 R Ground Thrasher, Bendire's Toxostoma bendirei TOBE BETH 7080 B Shrub, Woody Lower Canopy Thrasher, Callifornia Toxostoma rufum TORU BRTH 7050 R Shrub, Woody Lower Canopy Thrasher, Callifornia Toxostoma redivivum TORE CATH 7100 R Shrub, Woody Lower Canopy Thrasher, Callifornia Toxostoma dorsale TODO CRTH 7120 R Shrub, Woody Lower Canopy Thrasher, Curve-billed Toxostoma curvirostre TOCU CBTH 7070 R Shrub, Woody Lower Canopy Thrasher, Le Conte's Toxostoma locentei TOLE LCTH 7110 R Shrub, Woody Lower Canopy Thrasher, Long-billed Toxostoma longirostre TOLD LBTH 7060 R Shrub, Woody Lower Canopy Thrasher, Sage Oreoscoptes montanus ORMO SATH 7020 B Shrub, Woody Lower Canopy Thrush, Gray-cheeked Catharus minimus CAMI2 GCTH 7570 A Shrub, Woody Lower Canopy Thrush, Hermit Catharus guttatus CAMI2 GCTH 7570 A Shrub, Woody Lower Canopy Thrush, Hermit Catharus guttatus CAMI2 GCTH 7570 A Shrub, Woody Lower Canopy Thrush, Varied Ixoreus naevius IXNA VATH 7630 R Woody Lower Canopy Thrush, Wood Hylocichia mustelina HYMU WOTH 7550 A Shrub, Woody Lower Canopy Tittinouse, Bridled Parus wollweberi PAWO BRTI 7340 R Woody Lower Canopy Titmouse, Bridled Parus wilnesheri PAWO BRTI 7340 R Woody Lower Canopy, Snag Titmouse, Plain Parus riomatus PAIN PLTI 7330 R Woody Lower Canopy, Snag Titmouse, Plain Parus riomatus PAIN PLTI 7330 R Woody Lower Canopy, Snag Titmouse, Directed Towhee, Abert's Pipilo aberti PAWO BRTI 7340 R Woody Lower Canopy, Snag Towhee, Brown Pipilo toxcus PIFU BRTO 5910 A Shrub, Woody Lower Canopy Towhee, Green-tailed Pipilo aberti PARB ABTO 5920 R Shrub, Woody Lower Canopy Towhee, Green-tailed Pipilo aberti Parushon, Elegant Trogon elegans TREL ELTR 3890 C Snag, Bank Trogon, Elegant Trogon elegans TREL ELTR Tropicbird, White-tailed Phaethon lepturus PHAE RBTR 1130 R Ground Turnstone, Black Arenaria melanocephala Arenaria melanocephala Turnstone, Ruddy Arenaria melanocephala Turnstone, Ruddy Arenaria melanocephala Turnstone, Ruddy Arenaria melanocephala Turnstone, Ruddy Arenari	• •						
Thrasher, Bendire's Toxostoma bendirei TOBE BETH 7080 B Shrub, Woody Lower Canopy Thrasher, Grown Toxostoma rufum TORU BRTH 7050 R Shrub, Woody Lower Canopy Thrasher, California Toxostoma redivirum TORE CATH 7100 R Shrub, Woody Lower Canopy Thrasher, Crissal Toxostoma dorsale TODO CRTH 7120 R Shrub, Woody Lower Canopy Thrasher, Curve-billed Toxostoma curvirostre TOCU CBTH 7120 R Shrub, Woody Lower Canopy Thrasher, Le Conte's Toxostoma lecontei TOLE LCTH 7110 R Shrub, Woody Lower Canopy Thrasher, Le Conte's Toxostoma lecontei TOLE LCTH 7110 R Shrub, Woody Lower Canopy Thrasher, Long-billed Toxostoma longirostre TOLO LBTH 7060 R Shrub, Woody Lower Canopy Thrasher, Sage Oreoscoptes montanus ORMO SATH 7020 B Shrub, Ground Thrush, Gray-cheeked Catharus minimus CAMI2 GCTH 7570 A Shrub, Woody Lower Canopy Thrush, Hermit Catharus guttatus CAGU HETH 7590 B Ground, Woody Lower Canopy Thrush, Swainson's Catharus ustulatus CAUS SWTH 7580 A Shrub, Woody Lower Canopy Thrush, Varied koreus naevius IXNA VATH 7630 R Woody Lower Canopy Thrush, Wood Hylocichla mustelina HYMU WOTH 7550 A Woody Upper Canopy Titmouse, Bridled Parus wolfweberi PAWO BRTI 7390 R Snag, Woody Lower Canopy, Snag Titmouse, Plain Parus inomatus PAIN PLII 7330 R Woody Lower Canopy, Snag Titmouse, Plain Parus bicolor PABI TUTI 7310 R Woody Lower Canopy, Snag Titmouse, Brown Pipilo tuscus PIPU BRTO 5920 R Shrub, Woody Lower Canopy Towhee, Berown Pipilo tuscus PIPU BRTO 5920 R Shrub, Woody Lower Canopy Towhee, Green-tailed Pipilo erythrophthalmus PIER RSTO 5870 B Ground, Cliff Tropicbird, Red-billed Phaethon aethereus PAHE BRTR 1130 R Ground Turnstone, Black Arenaria metanocephala ARME BLTU 2840 R Ground Turnstone, Black Arenaria interpres ARIN RUTU 2840 R Ground Turnstone, Ruddy Arenaria interpres ARIN RUTU 2840 R Ground Turnstone, Ruddy Arenaria interpres CAIN RUTL 2840 R Ground Verdin Auriparus flaviceps	,						
Thrasher, Brown Toxostoma rufum TORU BRTH 7050 R Shrub, Woody Lower Canopy Thrasher, California Toxostoma redivivum TORE CATH 7100 R Shrub, Woody Lower Canopy Thrasher, Crissal Toxostoma dorsale TODO CRTH 7120 R Shrub, Woody Lower Canopy Thrasher, Curve-billed Toxostoma dorsale TOCU CBTH 7120 R Shrub, Woody Lower Canopy Thrasher, Curve-billed Toxostoma lecontei TOLE LCTH 7110 R Shrub, Woody Lower Canopy Thrasher, Le Conte's Toxostoma lecontei TOLE LCTH 7110 R Shrub, Woody Lower Canopy Thrasher, Leor, billed Toxostoma longirostre TOLO LBTH 7060 R Shrub, Woody Lower Canopy Thrasher, Sage Oreoscoptes montanus ORMO SATH 7020 B Shrub, Woody Lower Canopy Thrush, Gray-cheeked Catharus minimus CAMI2 GCTH 7570 A Shrub, Woody Lower Canopy Thrush, Swainson's Catharus guttatus CAUS SWTH 7580 B Ground, Woody Lower Canopy Thrush, Swainson's Catharus ustulatus CAUS SWTH 7580 A Shrub, Woody Lower Canopy Thrush, Varied Ixoreus naevius IXNA VATH 7630 R Woody Lower Canopy Thrush, Wood Hylocichla mustellina HYMU WOTH 7550 A Woody Upwer Canopy Titmouse, Bridled Parus wollweberi PAWO BRTI 7340 R Woody Upwer Canopy, Snag Titmouse, Plain Parus inomatus PAIN PLTI 7330 R Woody Lower Canopy, Snag Titmouse, Tutted Parus bicolor PABI TUTI' 7310 R Woody Lower Canopy, Snag Titmouse, Tutted Parus bicolor PABI TUTI' 7310 R Woody Upwer Canopy, Snag Towhee, Abert's Pipilo aberti PIAB ABTO 5920 R Shrub, Woody Lower Canopy Towhee, Brown Pipilo fuscus PIER RSTO 5870 B Ground, Shrub Tropohichird, Red-billed Phaethon aethereus PIAE RSTO 5870 B Ground, Cliff Tropicbird, White-tailed Phaethon aethereus PIAE RSTR 1130 R Ground, Cliff Trurky, Wild Meleagris gallopavo MEGA WITU' 3100 R Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground, Cliff Turnstone, Ruddy Arenaria interpres ARIN RUTU 2840 R Ground Tyranulet, Northern Camptostoma imberbe CAIW VEER 7560 A Ground, Shrub Veerdin	•						
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Tit, Siberian Parus cinctus PACI SITI 7390 R Snag, Woody Lower Canopy Titmouse, Bridled Parus wollweberi PAWO BRTI 7340 R Woody Lower Canopy, Snag Titmouse, Plain Parus inornatus PAIN PLTI 7330 R Woody Lower Canopy, Snag Titmouse, Tufted Parus bicolor PABI TUTI* 7310 R Woody Upper Canopy, Snag Towhee, Abert's Pipilo aberti PIAB ABTO 5920 R Shrub, Woody Lower Canopy Towhee, Brown Pipilo fuscus PIFU BRTO 5910 R Shrub, Woody Lower Canopy Towhee, Green-tailed Pipilo chlorurus PICH GTTO 5900 A Shrub, Ground Towhee, Rufous-sided Pipilo erythrophthalmus PIER RSTO 5870 B Ground, Shrub Trogon, Elegant Trogon elegans TREL ELTR 3890 C Snag, Bank Tropicbird, Red-billed Phaethon aethereus PHAE RBTR 1130 R Ground, Cliff Tropicbird, White-tailed Phaethon lepturus PHLE WTTR 1120 R Ground, Cliff Turkey, Wild Meleagris gallopavo MEGA WITU* 3100 R Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Ruddy Arenaria interpres ARIN RUTU 2830 R Ground Tyranulet, Northem Camptostoma imberbe CAIM NBTY 4720 C Woody Upper Canopy Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps	•						• • • • • • • • • • • • • • • • • • • •
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Titmouse, Plain Parus inornatus PAIN PLTI 7330 R Woody Lower Canopy, Snag Titmouse, Tufted Parus bicolor PABI TUTI* 7310 R Woody Upper Canopy, Snag Towhee, Abert's Pipilo aberti PIAB ABTO 5920 R Shrub, Woody Lower Canopy Towhee, Brown Pipilo fuscus PIFU BRTO 5910 R Shrub, Woody Lower Canopy Towhee, Green-tailed Pipilo chlorurus PICH GTTO 5900 A Shrub, Ground Towhee, Rufous-sided Pipilo erythrophthalmus PIER RSTO 5870 B Ground, Shrub Trogon, Elegant Trogon elegans TREL ELTR 3890 C Snag, Bank Tropicbird, Red-billed Phaethon aethereus PHAE RBTR 1130 R Ground, Cliff Tropicbird, White-tailed Phaethon lepturus PHLE WTTR 1120 R Ground, Cliff Turkey, Wild Meleagris gallopavo MEGA WITU* 3100 R Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Ruddy Arenaria interpres ARIN RUTU 2830 R Ground Tyranulet, Northern Camptostoma imberbe CAIM NBTY 4720 C Woody Upper Canopy Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus	·						• • • • • • • • • • • • • • • • • • • •
Titmouse, Tufted Parus bicolor PABI TUTI* 7310 R Woody Upper Canopy, Snag Towhee, Abert's Pipilo aberti PIAB ABTO 5920 R Shrub, Woody Lower Canopy Towhee, Brown Pipilo fuscus PIFU BRTO 5910 R Shrub, Woody Lower Canopy Towhee, Green-tailed Pipilo chlorurus PICH GTTO 5900 A Shrub, Ground Towhee, Rufous-sided Pipilo erythrophthalmus PIER RSTO 5870 B Ground, Shrub Trogon, Elegant Trogon elegans TREL ELTR 3890 C Snag, Bank Tropicbird, Red-billed Phaethon aethereus PHAE RBTR 1130 R Ground, Cliff Tropicbird, White-tailed Phaethon lepturus PHLE WTTR 1120 R Ground, Cliff Turkey, Wild Meleagris gallopavo MEGA WITU* 3100 R Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Ruddy Arenaria interpres ARIN RUTU 2830 R Ground Tyranulet, Northern Camptostoma imberbe CAIM NBTY 4720 C Woody Upper Canopy Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus	•						• • • • •
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Towhee, Brown Pipilo fuscus PIFU BRTO 5910 R Shrub, Woody Lower Canopy Towhee, Green-tailed Pipilo chlorurus PICH GTTO 5900 A Shrub, Ground Towhee, Rufous-sided Pipilo erythrophthalmus PIER RSTO 5870 B Ground, Shrub Trogon, Elegant Trogon elegans TREL ELTR 3890 C Snag, Bank Tropicbird, Red-billed Phaethon aethereus PHAE RBTR 1130 R Ground, Cliff Tropicbird, White-tailed Phaethon lepturus PHLE WTTR 1120 R Ground, Cliff Turkey, Wild Meleagris gallopavo MEGA WITU* 3100 R Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Ruddy Arenaria interpres ARIN RUTU 2830 R Ground Tyranulet, Northern Camptostoma imberbe CAIM NBTY 4720 C Woody Upper Canopy Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus							
Towhee, Green-tailed Pipilo chlorurus PICH GTTO 5900 A Shrub, Ground Towhee, Rufous-sided Pipilo erythrophthalmus PIER RSTO 5870 B Ground, Shrub Trogon, Elegant Trogon elegans TREL ELTR 3890 C Snag, Bank Tropicbird, Red-billed Phaethon aethereus PHAE RBTR 1130 R Ground, Cliff Tropicbird, White-tailed Phaethon lepturus PHLE WTTR 1120 R Ground, Cliff Turkey, Wild Meleagris gallopavo MEGA WITU* 3100 R Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Ruddy Arenaria interpres ARIN RUTU 2830 R Ground Tyranulet, Northern Camptostoma imberbe CAIM NBTY 4720 C Woody Upper Canopy Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus	·	•					•
Towhee, Rufous-sided Pipilo erythrophthalmus PIER RSTO 5870 B Ground, Shrub Trogon, Elegant Trogon elegans TREL ELTR 3890 C Snag, Bank Tropicbird, Red-billed Phaethon aethereus PHAE RBTR 1130 R Ground, Cliff Tropicbird, White-tailed Phaethon lepturus PHLE WTTR 1120 R Ground, Cliff Turkey, Wild Meleagris gallopavo MEGA WITU* 3100 R Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Ruddy Arenaria interpres ARIN RUTU 2830 R Ground Tyranulet, Northern Camptostoma imberbe CAIM NBTY 4720 C Woody Upper Canopy Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus	Towhee, Brown	Pipilo fuscus					•
Trogon, Elegant Trogon elegans TREL ELTR 3890 C Snag, Bank Tropicbird, Red-billed Phaethon aethereus PHAE RBTR 1130 R Ground, Cliff Tropicbird, White-tailed Phaethon lepturus PHLE WTTR 1120 R Ground, Cliff Turkey, Wild Meleagris gallopavo MEGA WITU* 3100 R Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Ruddy Arenaria interpres ARIN RUTU 2830 R Ground Tyranulet, Northern Camptostoma imberbe CAIM NBTY 4720 C Woody Upper Canopy Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus	Towhee, Green-tailed	Pipilo chlorurus					
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Tropicbird, White-tailed Phaethon lepturus PHLE WTTR 1120 R Ground, Cliff Turkey, Wild Meleagris gallopavo MEGA WITU* 3100 R Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Ruddy Arenaria interpres ARIN RUTU 2830 R Ground Tyranulet, Northern Camptostoma imberbe CAIM NBTY 4720 C Woody Upper Canopy Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus	Trogon, Elegant	Trogon elegans	TREL	ELTR	3890		_
Turkey, Wild Meleagris gallopavo MEGA WITU* 3100 R Ground Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Ruddy Arenaria interpres ARIN RUTU 2830 R Ground Tyranulet, Northern Camptostoma imberbe CAIM NBTY 4720 C Woody Upper Canopy Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus	Tropicbird, Red-billed	Phaethon aethereus	PHAE	RBTR	1130		
Turnstone, Black Arenaria melanocephala ARME BLTU 2840 R Ground Turnstone, Ruddy Arenaria interpres ARIN RUTU 2830 R Ground Tyranulet, Northern Camptostoma imberbe CAIM NBTY 4720 C Woody Upper Canopy Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus	Tropicbird, White-tailed	Phaethon lepturus	PHLE	WTTR	1120	R	Ground, Cliff
Turnstone, Ruddy Arenaria interpres ARIN RUTU 2830 R Ground Tyranulet, Northern Camptostoma imberbe CAIM NBTY 4720 C Woody Upper Canopy Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus	Turkey, Wild	Meleagris gallopavo	MEGA	WITU*	3100	R	Ground
Tyranulet, Northern Camptostoma imberbe CAIM NBTY 4720 C Woody Upper Canopy Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus	Turnstone, Black	Arenaria melanocephala	ARME	BLTU	2840	R	Ground
Beardless Veery Catharus fuscescens CAFU2 VEER 7560 A Ground, Shrub Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus	Turnstone, Ruddy	Arenaria interpres	ARIN	RUTU	2830	R	Ground
Verdin Auriparus flaviceps AUFL VERD 7460 R Shrub, Cactus	Beardless	,					
	Veery	Catharus fuscescens					
Vireo, Bell's Vireo bellii VIBE BEVI 6330 A Shrub, Woody Lower Canopy	Verdin	·					·
	Vireo, Bell's	Vireo bellii	VIBE	BEVI	6330	Α	Shrub, Woody Lower Canopy

Februs Scrape Insects, Aguatic Inverts Water Prober Freshwater, Riparian Freshwater, Riparian Freshwater, Swamp/Marsh, Preshwater Surface Dips, Dabbler Swamp/Marsh, Freshwater StrAL Scrape Fish, Aquatic Inverts Water High Dives Coastal, Freshwater Swamp/Marsh Swamp/Marsh Swamp/Marsh Strape Fish, Aquatic Inverts Water High Dives Coastal, Tundra, Coastal Swamp/Marsh Strape Fish, Aquatic Inverts Water High Dives Coastal, Tundra Strape Fish, Aquatic Inverts Water High Dives Coastal, Tundra Scrape Fish, Aquatic Inverts Water High Dives Coastal, Tealpaig Swamp/Marsh Strape Fish, Aquatic Inverts Water High Dives Coastal, Felagic StrAnt Scrape Fish, Aquatic Inverts Water High Dives Coastal, Freshwater Water High Dives Coastal, Freshwater StrAnt Scrape Fish, Aquatic Inverts Water High Dives Coastal, Freshwater StrAnt Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal Freshwater Coastal Freshwater StrAnt Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal Freshwater Coastal Freshwater Coastal Freshwater StrAnt Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal Freshwater Coastal Freshwater Coastal Freshwater Mare High Dives Coastal, Freshwater Coastal Freshwater Coastal Freshwater Coastal Freshwater Coastal Freshwater Fre	LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
ANCR Scrape Seds, Insects Water Surface Dips, Dabbler SwampMarsh, Freshwater ANCR Scrape Seds, Aquatic Inverts Water High Dives Coastal, Oward Coastal, Oward STPA1 Scrape Fish, Aquatic Inverts Water High Dives Coastal, Tundra STCA1 Scrape Fish, Aquatic Inverts Air, Water High Dives Coastal, Tundra STCA1 Scrape Fish, Aquatic Inverts Air, Water High Dives Coastal, Tundra STEL Scrape Fish, Aquatic Inverts Water High Dives Coastal, Treahwater STEL Scrape Fish, Aquatic Inverts Water High Dives, Aerial Foraging SwampMarsh STNI Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Feelswater STNAI Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal Coastal STDO Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal Coastal Coastal F	HEIN	Scrape	Insects, Aquatic Inverts	Water	Prober	Freshwater, Riparian
ANCR Scrape Seeds. Aquatic Inverts Ground, Water Ground Gleaner, Dabbler SwampMarsh, Freshwater STAL1 Scrape Fish, Aquatic Inverts Water High Dives Tundra, Coastal, Pelagic CHNI Platform, Scrape Insects, Aquatic Inverts Air, Water Hawker, Skimmer SwampMarsh STCA1 Scrape Fish, Aquatic Inverts Water High Dives Coastal, Pelagic STCA1 Scrape Fish, Aquatic Inverts Water High Dives Coastal, Treshwater STEL Scrape Fish, Aquatic Inverts Water High Dives Coastal, Pelagic STNAI Scrape Fish, Aquatic Inverts Water High Dives, Aerial Foraging SwampMarsh STAN1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STAN1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STAN1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STAN1	ANDI	Scrape	Seeds, Greens	Water	Surface Dips, Dabbler	Freshwater, Swamp/Marsh
STAL1 Scrape Fish, Aquatic Inverts Water High Dives Coastal, Pelagic STPA1 Scrape Fish, Aquatic Inverts Air, Water High Dives Tundra, Coastal STCA1 Scrape Fish, Aquatic Inverts Water High Dives Coastal, Freshwater STEL Scrape Fish, Aquatic Inverts Water High Dives Coastal, Pelagic STED Scrape Fish, Aquatic Inverts Water High Dives Coastal, Pelagic STEO Platform, Saucer Fish, Aquatic Inverts Water High Dives, Arail Foraging Swamp/Marsh STANI Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STDO Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STDA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STDA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STDA Scrape Fish, Aquatic Inverts Wate	ANCY '	Scrape	Seeds, Insects	Water	Surface Dips, Dabbler	Swamp/Marsh, Freshwater
STPA1 Scrape Fish, Aquatic Inverts Water High Dives Tundra, Coastal CHNI Platform, Scrape Insacts, Aquatic Inverts Water Hawker, Skimmer Swamp/Marsh STCA1 Scrape Fish, Aquatic Inverts Water High Dives Coastal, Freshwater STEL Scrape Fish, Aquatic Inverts Water High Dives, Aerial Foraging Swamp/Marsh STEO Platform, Saucer Fish, Insects Water Scavenger, High Dives Coastal, Pelagic STAN1 Scrape Fish, Aquatic Inverts Water High Dives, Aerial Foraging Shoreline, Pelagic STAN1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STDA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STSA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater TORE Cup Insects, Fruit Ground, Foliage Ground, Foliage Hover & Pick Coastal, Freshwater	ANCR	Scrape	Seeds, Aquatic Inverts	Ground, Water	Ground Gleaner, Dabbler	Swamp/Marsh, Freshwater
CHNI Platform, Scrape Insects, Aquatic Inverts Air, Water Hawker, Skimmer Swamp/Marsh STCA1 Scrape Fish, Aquatic Inverts Water High Dives Coastal, Freshwater STEL Scrape Fish, Aquatic Inverts Water High Dives Coastal, Pelagic STROI Strape Fish, Insects Water, Air High Dives, Aanial Foraging Swamp/Marsh STRNI Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STAN1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STDO Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STSA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STDO Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STDO Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STDO Scrape	STAL1	Scrape	Fish, Aquatic Inverts	Water	High Dives	Coastal, Pelagic
STCA1 Scrape Fish, Aquatic Inverts Water High Dives Coastal, Freshwater STELL Scrape Fish, Aquatic Inverts Water High Dives Coastal, Trundra STELL Scrape Fish Water Scavenger, High Dives Coastal, Pelagic STNI Scrape Fish, Aquatic Inverts Air, Ground Hawker, Hover & Pounce Shoreline, Pelagic STANI Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STDA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STMA1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STMA1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STMD Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal TORE Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Freshwater TORD Cup Insects, Fruit <	STPA1	Scrape	Fish, Aquatic Inverts	Water	High Dives	Tundra, Coastal
STHI Scrape Fish, Aquatic Inverts Water High Dives Coastal, Tundra STED Platform, Saucer Fish Water Scavenger, High Dives Coastal, Telegic STNI Scrape Insects, Aquatic Inverts Air, Ground Hawker, Hover & Pounce Shoreline, Pelagic STAN1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STMA1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STMA1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STMA1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STMA1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STMD Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STMU1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal TODU Up Insects, Fruit Ground, Foliage	CHNI	Platform, Scrape	Insects, Aquatic Inverts	Air, Water	Hawker, Skimmer	Swamp/Marsh
STEL Scrape Fish Water Scavenger, High Dives Coastal, Pelagic STFO Platform, Saucer Fish, Insects Water, Air High Dives, Aerial Foraging Swamp/Marsh STANI Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STDO Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STMAI Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STSU Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STEU Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal TOBE Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Riparian TORE Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Riparian TOCLD Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Riparian TOLD <td< td=""><td>STCA1</td><td>Scrape</td><td>Fish, Aquatic Inverts</td><td>Water</td><td>High Dives</td><td>Coastal, Freshwater</td></td<>	STCA1	Scrape	Fish, Aquatic Inverts	Water	High Dives	Coastal, Freshwater
STFO Platform, Saucer Fish, Insects Water, Air High Dives, Aerial Foraging Swamp/Marsh STANI Scrape Insects, Aquatic Inverts Air, Ground Hawker, Hover & Pounce Shoreline, Pelagic STANI Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STMA1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STSA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STSA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STSA Scrape Fish, Aquatic Inverts Water Hoyer & Pick Coastal TORU Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland TORU Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland TOLE Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland TOLO Cup <t< td=""><td>STHI</td><td>Scrape</td><td>Fish, Aquatic Inverts</td><td>Water</td><td>High Dives</td><td>Coastal, Tundra</td></t<>	STHI	Scrape	Fish, Aquatic Inverts	Water	High Dives	Coastal, Tundra
STNII Scrape Insects, Aquatic Inverts Air, Ground Hawker, Hover & Pounce Shoreline, Pelagic STAN1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STMA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STSA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STEU Scrape Fish, Aquatic Inverts Water Hover & Plok Coastal, Freshwater TORE Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Forest Edge TORE Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Fiparian TOLD Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland TOLD Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland TOLD Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland <t< td=""><td>STEL</td><td>Scrape</td><td>Fish</td><td>Water</td><td>Scavenger, High Dives</td><td>Coastal, Pelagic</td></t<>	STEL	Scrape	Fish	Water	Scavenger, High Dives	Coastal, Pelagic
STAN1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STDO Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STSA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STSU Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal TOBE Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Forest Edge TORE Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Riparian TODD Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Riparian TOLO Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland TOLO Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland TOLO Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Riparian	STFO	Platform, Saucer	Fish, Insects	Water, Air	High Dives, Aerial Foraging	Swamp/Marsh
STDO Scrape Fish, Aquatic Inverts Water High Dives Coastal, Freshwater STMAI Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STFA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal TORE Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland TORE Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Floarian TORE Cup Insects, Fruit Ground, Foliage Gloaner, Foliage Gleaner Shrubland, Riparian TOCO Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Riparian TOLO Cup Insects, Small Verts Ground, Foliage Ground Gleaner Shrubland, Riparian TOLO Cup Insects, Fruit Ground, Foliage Ground Gleaner Shrubland, Riparian CAMIO Cup Insects, Fruit Ground, Foliage Ground Gleaner Forest, Forest Edge, Riparian CASU	STNI	Scrape	Insects, Aquatic Inverts	Air, Ground	Hawker, Hover & Pounce	Shoreline, Pelagic
STMA1 Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STSA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal, Freshwater STBA Scrape Fish, Aquatic Inverts Water Hover & Pick Coastal, Freshwater TORID Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Forest Edge TORID Cup Insects, Fruit Ground Digging, Foliage Gleaner Shrubland, Riparian TOCU Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland TOLE Cup Insects, Small Verts Ground, Foliage Ground Gleaner Shrubland TOLE Cup Insects, Small Verts Ground, Foliage Ground Gleaner Shrubland TOLE Cup Insects, Fruit Ground, Foliage Ground Gleaner Shrubland CAMI2 Cup Insects, Fruit Ground, Foliage Ground Gleaner Forest Edge IXNA Cup Insects, Fruit <td>STAN1</td> <td>Scrape</td> <td>Fish, Aquatic Inverts</td> <td>Water</td> <td>High Dives, Skimmer</td> <td>Coastal, Freshwater</td>	STAN1	Scrape	Fish, Aquatic Inverts	Water	High Dives, Skimmer	Coastal, Freshwater
STSA Scrape Fish, Aquatic Inverts Water High Dives, Skimmer Coastal STFU Scrape Fish, Aquatic Inverts Water Hover & Pick Coastal, Freshwater TOBE Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Forest Edge TORE Cup Insects, Fruit Ground, Foliage Digging, Foliage Gleaner Shrubland, Riparian TODO Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Riparian TOLD Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland TOLO Cup Insects, Fruit Ground Ground Gleaner, Foliage Gleaner Shrubland TOLO Cup Insects, Fruit Ground Ground Gleaner, Foliage Gleaner Shrubland, Riparian CAMI2 Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Forest Edge CAUS Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Forest, Forest Edge <t< td=""><td>STDO</td><td>Scrape</td><td>Fish, Aquatic Inverts</td><td>Water</td><td>High Dives</td><td>Coastal, Freshwater</td></t<>	STDO	Scrape	Fish, Aquatic Inverts	Water	High Dives	Coastal, Freshwater
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TOLE Cup Insects, Small Verts Ground, Foliage Digging, Foliage Gleaner Shrubland TOLO Cup Insects, Small Verts Ground, Foliage Ground Gleaner, Foliage Gleaner Shrubland, Riparian ORMO Cup Insects, Fruit Ground Ground Gleaner Shrubland CAMI2 Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Forest Edge, Riparian CAGU Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Forest, Forest Edge IXNA Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Forest, Forest Edge IXNA Cup Insects, Fruit Ground, Foliage Ground Gleaner, Foliage Gleaner Forest, Forest Edge IXNA Cup Insects, Seeds Foliage, Bark Foliage Gleaner, Bark Gleaner Forest, Riparian PACI Cavity Insects, Seeds Foliage, Bark Foliage Gleaner, Bark Gleaner Forest, Shrubland PABI Cavity Insects, Seeds Foliage, Bark Foliage Gleaner, Bark Gleaner <t< td=""><td>TODO</td><td>Cup</td><td>Insects, Fruit</td><td>Ground</td><td>Digging</td><td>Shrubland, Riparian</td></t<>	TODO	Cup	Insects, Fruit	Ground	Digging	Shrubland, Riparian
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PABICavityInsects, SeedsFoliage, BarkFoliage Gleaner, Bark GleanerForest, ShrublandPIABCupSeeds, InsectsGroundGround GleanerShrubland, RiparianPIFUCupSeeds, InsectsGroundGround GleanerShrubland, RiparianPICHCupInsects, SeedsGroundGround Gleaner, Foliage GleanerForest Edge, ShrublandPIERCupInsects, FruitAirHawker, Hover GleanerForest, ShrublandTRELCavityInsects, FruitAirHigh DivesCoastal, PelagicPHAEBurrow, CreviceFish, Aquatic InvertsWaterHigh DivesCoastal, PelagicPHLEBurrow, CreviceFish, Aquatic InvertsWaterHigh DivesCoastal, PelagicMEGAScrapeSeeds, InsectsGroundGround GleanerForest, RiparianARMEScrapeAquatic Inverts, FruitGroundGround GleanerShoreline, TundraARINScrapeInsects, Aquatic InvertsGround, WaterGround Gleaner, ProberCoastal, TundraCAIMSphereInsects, FruitAirHawkerRiparian, ForestCAFU2CupInsects, FruitGroundGround Gleaner, SwooperForestAUFLSphereInsects, FruitFoliage, BarkFoliage Gleaner, Bark GleanerShrubland	PAWO	Cavity	Insects	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest, Shrubland
PIABCupSeeds, InsectsGroundGround GleanerShrubland, RiparianPIFUCupSeeds, InsectsGroundGround GleanerShrubland, RiparianPICHCupInsects, SeedsGroundGround GleanerShrubland, RiparianPIERCupInsects, SeedsGround, FoliageGround Gleaner, Foliage GleanerForest Edge, ShrublandTRELCavityInsects, FruitAirHawker, Hover GleanerForest, ShrublandPHAEBurrow, CreviceFish, Aquatic InvertsWaterHigh DivesCoastal, PelagicPHLEBurrow, CreviceFish, Aquatic InvertsWaterHigh DivesCoastal, PelagicMEGAScrapeSeeds, InsectsGroundGround GleanerForest, RiparianARMEScrapeAquatic Inverts, FruitGroundGround GleanerShoreline, TundraARINScrapeInsects, Aquatic InvertsGround, WaterGround Gleaner, ProberCoastal, TundraCAIMSphereInsects, FruitAirHawkerRiparian, ForestCAFU2CupInsects, FruitGroundGround Gleaner, Bark GleanerShrubland	PAIN	Cavity	Insects, Fruit	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest
PIFU Cup Seeds, Insects Ground Ground Gleaner Shrubland, Riparian PICH Cup Insects, Seeds Ground Ground Gleaner Shrubland, Riparian PIER Cup Insects, Seeds Ground, Foliage Ground Gleaner, Foliage Gleaner Forest Edge, Shrubland TREL Cavity Insects, Fruit Air Hawker, Hover Gleaner Forest, Shrubland PHAE Burrow, Crevice Fish, Aquatic Inverts Water High Dives Coastal, Pelagic PHLE Burrow, Crevice Fish, Aquatic Inverts Water High Dives Coastal, Pelagic MEGA Scrape Seeds, Insects Ground Gleaner Forest, Riparian ARME Scrape Aquatic Inverts, Fruit Ground Ground Gleaner Shoreline, Tundra ARIN Scrape Insects, Aquatic Inverts Ground, Water Ground Gleaner, Prober Coastal, Tundra CAIM Sphere Insects, Fruit Ground Ground Gleaner, Swooper Forest AUFL Sphere Insects, Fruit Foliage, Bark Foliage Gleaner, Bark Gleaner Shrubland	PABI	Cavity	Insects, Seeds	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest, Shrubland
PICH Cup Insects, Seeds Ground Gleaner Shrubland, Riparian PIER Cup Insects, Seeds Ground, Foliage Ground Gleaner, Foliage Gleaner Forest Edge, Shrubland TREL Cavity Insects, Fruit Air Hawker, Hover Gleaner Forest, Shrubland PHAE Burrow, Crevice Fish, Aquatic Inverts Water High Dives Coastal, Pelagic PHLE Burrow, Crevice Fish, Aquatic Inverts Water High Dives Coastal, Pelagic MEGA Scrape Seeds, Insects Ground Ground Gleaner Forest, Riparian ARME Scrape Aquatic Inverts, Fruit Ground Ground Gleaner Shoreline, Tundra ARIN Scrape Insects, Aquatic Inverts Ground, Water Ground Gleaner, Prober Coastal, Tundra CAIM Sphere Insects, Fruit Air Hawker Riparian, Forest CAFU2 Cup Insects, Fruit Ground Ground Gleaner, Swooper Forest AUFL Sphere Insects, Fruit Foliage, Bark Foliage Gleaner, Bark Gleaner Shrubland	PIAB	Cup	Seeds, Insects	Ground	Ground Gleaner	Shrubland, Riparian
PIER Cup Insects, Seeds Ground, Foliage Ground Gleaner, Foliage Gleaner Forest Edge, Shrubland TREL Cavity Insects, Fruit Air Hawker, Hover Gleaner Forest, Shrubland PHAE Burrow, Crevice Fish, Aquatic Inverts Water High Dives Coastal, Pelagic PHLE Burrow, Crevice Fish, Aquatic Inverts Water High Dives Coastal, Pelagic MEGA Scrape Seeds, Insects Ground Ground Gleaner Forest, Riparian ARME Scrape Aquatic Inverts, Fruit Ground Ground Gleaner Shoreline, Tundra ARIN Scrape Insects, Aquatic Inverts Ground, Water Ground Gleaner, Prober Coastal, Tundra CAIM Sphere Insects, Fruit Air Hawker Riparian, Forest CAFU2 Cup Insects, Fruit Ground Ground Gleaner, Swooper Forest AUFL Sphere Insects, Fruit Foliage, Bark Foliage Gleaner, Bark Gleaner	PIFU	Cup	Seeds, Insects	Ground	Ground Gleaner	Shrubland, Riparian
TREL Cavity Insects, Fruit Air Hawker, Hover Gleaner Forest, Shrubland PHAE Burrow, Crevice Fish, Aquatic Inverts Water High Dives Coastal, Pelagic PHLE Burrow, Crevice Fish, Aquatic Inverts Water High Dives Coastal, Pelagic MEGA Scrape Seeds, Insects Ground Ground Gleaner Forest, Riparian ARME Scrape Aquatic Inverts, Fruit Ground Ground Gleaner Shoreline, Tundra ARIN Scrape Insects, Aquatic Inverts Ground, Water Ground Gleaner, Prober Coastal, Tundra CAIM Sphere Insects, Fruit Air Hawker Riparian, Forest CAFU2 Cup Insects, Fruit Ground Ground Gleaner, Swooper Forest AUFL Sphere Insects, Fruit Foliage, Bark Foliage Gleaner, Bark Gleaner Shrubland	PICH	Cup	Insects, Seeds	Ground	Ground Gleaner	Shrubland, Riparian
PHAEBurrow, CreviceFish, Aquatic InvertsWaterHigh DivesCoastal, PelagicPHLEBurrow, CreviceFish, Aquatic InvertsWaterHigh DivesCoastal, PelagicMEGAScrapeSeeds, InsectsGroundGround GleanerForest, RiparianARMEScrapeAquatic Inverts, FruitGroundGround GleanerShoreline, TundraARINScrapeInsects, Aquatic InvertsGround, WaterGround Gleaner, ProberCoastal, TundraCAIMSphereInsects, FruitAirHawkerRiparian, ForestCAFU2CupInsects, FruitGroundGround Gleaner, SwooperForestAUFLSphereInsects, FruitFoliage, BarkFoliage Gleaner, Bark GleanerShrubland	PIER	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest Edge, Shrubland
PHLEBurrow, CreviceFish, Aquatic InvertsWaterHigh DivesCoastal, PelagicMEGAScrapeSeeds, InsectsGroundGround GleanerForest, RiparianARMEScrapeAquatic Inverts, FruitGroundGround GleanerShoreline, TundraARINScrapeInsects, Aquatic InvertsGround, WaterGround Gleaner, ProberCoastal, TundraCAIMSphereInsects, FruitAirHawkerRiparian, ForestCAFU2CupInsects, FruitGroundGround Gleaner, SwooperForestAUFLSphereInsects, FruitFoliage, BarkFoliage Gleaner, Bark GleanerShrubland	TREL	Cavity	Insects, Fruit	Air	Hawker, Hover Gleaner	Forest, Shrubland
MEGA Scrape Seeds, Insects Ground Ground Gleaner Forest, Riparian ARME Scrape Aquatic Inverts, Fruit Ground Ground Gleaner Shoreline, Tundra ARIN Scrape Insects, Aquatic Inverts Ground, Water Ground Gleaner, Prober Coastal, Tundra CAIM Sphere Insects, Fruit Air Hawker Riparian, Forest CAFU2 Cup Insects, Fruit Ground Gleaner, Swooper Forest AUFL Sphere Insects, Fruit Foliage, Bark Foliage Gleaner, Bark Gleaner Shrubland	PHAE	Burrow, Crevice	Fish, Aquatic Inverts	Water	High Dives	Coastal, Pelagic
ARME Scrape Aquatic Inverts, Fruit Ground Ground Gleaner Shoreline, Tundra ARIN Scrape Insects, Aquatic Inverts Ground, Water Ground Gleaner, Prober Coastal, Tundra CAIM Sphere Insects, Fruit Air Hawker Riparian, Forest CAFU2 Cup Insects, Fruit Ground Ground Gleaner, Swooper Forest AUFL Sphere Insects, Fruit Foliage, Bark Foliage Gleaner, Bark Gleaner Shrubland	PHLE	Burrow, Crevice	Fish, Aquatic Inverts	Water	High Dives	Coastal, Pelagic
ARIN Scrape Insects, Aquatic Inverts Ground, Water Ground Gleaner, Prober Coastal, Tundra CAIM Sphere Insects, Fruit Air Hawker Riparian, Forest CAFU2 Cup Insects, Fruit Ground Gleaner, Swooper Forest AUFL Sphere Insects, Fruit Foliage, Bark Foliage Gleaner, Bark Gleaner Shrubland	MEGA	Scrape	Seeds, Insects	Ground	Ground Gleaner	Forest, Riparian
CAIM Sphere Insects, Fruit Air Hawker Riparian, Forest CAFU2 Cup Insects, Fruit Ground Gleaner, Swooper Forest AUFL Sphere Insects, Fruit Foliage, Bark Foliage Gleaner, Bark Gleaner Shrubland	ARME	Scrape	Aquatic Inverts, Fruit	Ground	Ground Gleaner	Shoreline, Tundra
CAIM Sphere Insects, Fruit Air Hawker Riparian, Forest CAFU2 Cup Insects, Fruit Ground Gleaner, Swooper Forest AUFL Sphere Insects, Fruit Foliage, Bark Foliage Gleaner, Bark Gleaner Shrubland		Scrape	Insects, Aquatic Inverts	Ground, Water	Ground Gleaner, Prober	Coastal, Tundra
CAFU2 Cup Insects, Fruit Ground Ground Gleaner, Swooper Forest AUFL Sphere Insects, Fruit Foliage, Bark Foliage Gleaner, Bark Gleaner Shrubland						
AUFL Sphere Insects, Fruit Foliage, Bark Foliage Gleaner, Bark Gleaner Shrubland		•	•	_		•
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		•	-	_	•	Riparian, Shrubland

COMMON NAME	SCIENTIFIC NAME	LCTA	ALPHA	AOU#	NEO	NEST LOCATION
		CODE	CODE		STAT	
Vireo, Black-capped	Vireo atricapillus	VIAT	BCVI	6300	Α	Woody Lower Canopy
Vireo, Black-whiskered	Vireo altiloquus	VIAL	BWVI	6230	D	Woody Lower Canopy
Vireo, Gray	Vireo vicinior	VIVI	GRVI	6340	Α	Shrub, Woody Lower Canopy
Vireo, Hutton's	Vireo huttoni	VIHU	HUVI	6320	R	Woody Lower Canopy
Vireo, Philadelphia	Vireo philadelphicus	VIPH	PHVI	6260	Α	Woody Upper Canopy
Vireo, Red-eyed	Vireo olivaceus	VIOL	REVI	6240	Α	Shrub, Woody Upper Canopy
Vireo, Solitary	Vireo solitarius	VISO	SOVI	6290	Α	Woody Lower Canopy
Vireo, Warbling	Vireo gilvus	VIGI	WAVI	6270	Α	Woody Upper Canopy, Shrub
Vireo, White-eyed	Vireo griseus	VIGR	WEVI	6310	Α	Shrub, Woody Lower Canopy
Vireo, Yellow-throated	Vireo flavifrons	VIFL	YTVI	6280	Α	Woody Upper Canopy
Vulture, Black	Coragyps atratus	COAT	BLVU	3260	R	Cliff, Ground
Vulture, Turkey	Cathartes aura	CAAU	TUVU	3250	В	Cliff, Snag
Wagtail, White	Motacilla alba	MOAL	WHWA	6940	R	Bank, Cliff
Wagtail, Yellow	Motacilla flava	MOFL	YWAG	6960	R	Ground
Warbler, Arctic	Phylloscopus borealis	PHBO	ARWA	7470	R	Ground
Warbler, Bachman's	Vermivora bachmanii	VEBA	BAWA	6400	Α	Vine Tangle, Woody Lower Canopy
Warbler, Bay-breasted	Dendroica castanea	DECA2	BBWA	6600	Α	Woody Upper Canopy
Warbler, Black-and-white	Mniotilta varia	MNVA	BAWW	6360	Α	Ground, Woody Lower Canopy
Warbler, Black-throated Blue	Dendroica caerulescens	DECA1	BTBW	6540	Α	Shrub, Woody Lower Canopy
Warbler, Black-throated Gray	Dendroica nigrescens	DENI	BTYW	6650	Α	Woody Upper Canopy
	Dendroica virens	DEVI	BTNW	6670	Α	Woody Upper Canopy
Green Warbler, Blackburnian	Dendroica fusca	DEFU	BLBW	6620	Α	Woody Upper Canopy
	Dendroica striata	DEST	BLPW	6610	A	Woody Lower Canopy
Warbler, Blackpoll		VEPI	BWWA	6410	A	Ground, Vine Tangle
Warbler, Blue-winged	Vermivora pinus Wilsonia canadensis	WICA	CAWA	6860	A	Ground
Warbler, Canada	Dendroica tigrina	DETI	CMWA	6500	A	Woody Upper Canopy
Warbler, Cape May	Dendroica agrina Dendroica cerulea	DECE	CERW	6580	A	Woody Upper Canopy
Warbler, Cerulean	Dendroica pensylvanica	DEPE	CSWA	6590	A	Shrub, Woody Lower Canopy
Warbler, Chestnut-sided Warbler, Colima	Vermivora crissalis	VECR	COLW	6471	C	Ground
Warbler, Connecticut	Oporornis agilis	OPAG	CONW	6780	A	Ground, Shrub
Warbier, Connecticut Warbier, Golden-cheeked	Dendroica chrysoparia	DECH	GCWA	6660	A	Woody Lower Canopy
Warbler, Golden-winged	Vermivora chrysoptera	VECH	GWWA	6420	A	Ground
Warbler, Grace's	Dendroica graciae	DEGR	GRWA	6640	A	Woody Upper Canopy
Warbler, Grace's Warbler, Hermit	Dendroica occidentalis	DEOC	HEWA	6690	A	Woody Upper Canopy
Warbler, Hooded	Wilsonia citrina	WICI	HOWA	6840	A	Shrub, Woody Lower Canopy
Warbler, Kentucky	Oporornis formosus	OPFO	KEWA	6770	Α	Ground, Shrub
Warbler, Kirtland's	Dendroica kirtlandii	DEKI	KIWA	6700	A	Ground
Warbler, Lucy's	Vermivora luciae	VELU	LUWA	6430	C	Snag, Woody Lower Canopy
Warbler, Lucy's Warbler, MacGillivray's	Oporomis tolmiei	OPTO	MGWA	6800	A	Shrub, Woody Lower Canopy
•	Dendroica magnolia	DEMA	MAWA	6570	A	Woody Lower Canopy, Shrub
Warbler, Magnolia Warbler, Mourning	Oporornis philadelphia	OPPH	MOWA	6790	A	Ground, Shrub
,	Vermivora ruficapilla	VERU	NAWA	6450	A	Ground
Warbler, Nashville	Peucedramus taeniatus	PETA	OLWA	6510	C	Woody Upper Canopy
Warbler, Olive		VECE	OCWA	6460	A	Ground, Woody Lower Canopy
Warbler, Orange-crowned	Vermivora celata	DEPA	PAWA*	6720	Ā	Ground, Woody Lower Canopy
Warbler, Palm	Dendroica palmarum	DEPI	PIWA	6710	R	Woody Upper Canopy
Warbler, Pine	Dendroica pinus Dendroica discolor	DEDI	PRAW	6730	Α.	Shrub, Woody Lower Canopy
Warbler, Prairie		PRCI	PROW	6370	Ā	Snag, Woody Lower Canopy
Warbler, Prothonotary	Protonotaria citrea	FNUI	FINOW	05/0	~	chag, troody control danupy

LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
VIAT	Cup	Insects, Seeds	Foliage	Foliage Gleaner	Forest, Shrubland
VIAL	Cup	Insects, Fruit	Foliage	Foliage Gleaner	Swamp/Marsh
VIVI ·	Cup	Insects	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Shrubland, Forest
VIHU	Cup	Insects, Fruit	Foliage	Foliage Gleaner	Forest
VIPH	Cup	Insects, Fruit	Air, Foliage	Hover Gleaner, Foliage Gleaner	Forest
VIOL	Cup	Insects, Fruit	Air, Foliage	Hover Gleaner, Foliage Gleaner	Forest, Urban
VISO	Cup	Insects, Fruit	Foliage, Air	Foliage Gleaner, Hawker	Forest
VIGI	Cup	Insects, Fruit	Foliage, Air	Foliage Gleaner, Hover Gleaner	Forest, Riparian
VIGR	Cup	Insects, Fruit	Foliage ·	Foliage Gleaner	Shrubland, Riparian
VIFL	Cup	Insects, Fruit	Foliage	Foliage Gleaner	Forest, Forest Edge
COAT	None	Carrion, Small Verts	Ground	Scavenger, High Patrol	Grassland, Shrubland
CAAU	None	Carrion	Ground	Scavenger, High Patrol	Grassland, Shrubland
MOAL	Crevice	Insects, Aquatic Inverts	Ground, Air	Ground Gleaner, Hawker	Shoreline, Tundra
MOFL	Cup	Insects, Aquatic Inverts	Ground, Air	Ground Gleaner, Hawker	Shoreline, Tundra
PHBO	Oven	Insects	Foliage, Air	Foliage Gleaner, Hover Gleaner	Forest, Shrubland
VEBA	Cup	Insects	Foliage	Foliage Gleaner	Swamp/Marsh
DECA2	Cup	Insects, Fruit	Foliage, Air	Foliage Gleaner, Hawker	Forest, Shrubland
MNVA	Cup	Insects	Bark, Air	Bark Gleaner, Hawker	Forest
DECA1	Cup	Insects, Seeds	Air, Foliage	Hover Gleaner, Foliage Gleaner	Forest
DENI	Cup	Insects	Foliage, Air	Foliage Gleaner, Hover Gleaner	Forest, Shrubland
DEVI	Cup	Insects	Foliage, Air	Foliage Gleaner, Hawker	Forest
DEFU	Cup	Insects, Fruit	Foliage, Air	Foliage Gleaner, Hover Gleaner	Forest
DEST	Cup	Insects, Fruit	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest
VEPI	Cup	Insects	Foliage	Foliage Gleaner	Shrubland, Riparian
WICA	Cup	Insects	Air, Foliage	Hover Gleaner, Foliage Gleaner	Forest, Riparian
DETI	Cup	Insects, Nectar	Foliage, Air	Foliage Gleaner, Hawker	Forest, Forest Edge
DECE	Cup	Insects	Foliage, Air	Foliage Gleaner, Hawker	Forest
DEPE	Cup	Insects, Fruit	Foliage, Air	Foliage Gleaner, Hawker	Shrubland, Forest
VECR	Cup	Insects	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Forest
OPAG	Cup	Insects, Seeds	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Swamp/Marsh, Forest
DECH	Cup	Insects	Foliage, Air	Foliage Gleaner, Hawker	Forest
VECH	Cup	Insects	Foliage	Foliage Gleaner	Grassland, Shrubland
DEGR	Cup	Insects	Foliage, Air	Foliage Gleaner, Hawker	Forest
DEOC	Cup	Insects	Foliage, Air	Foliage Gleaner, Hover Gleaner	Forest
WICI	Cup	Insects	Foliage, Air	Foliage Gleaner, Hawker	Forest, Riparian
OPFO	Cup	Insects, Fruit	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest
DEKI	Cup	Insects, Tree Sap	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Forest
VELU	Cavity	Insects	Foliage, Air	Foliage Gleaner, Hawker	Shrubland, Forest
ОРТО	Cup	Insects	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Riparian, Forest Edge
DEMA	Cup	Insects, Nectar	Air, Bark	Hover Gleaner, Bark Gleaner	Forest
ОРРН	Cup	Insects	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest, Swamp/Marsh
VERU	Cup	Insects	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Forest, Riparian
PETA	Cup	Insects	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Forest
VECE	Cup	Insects, Fruit	Foliage	Foliage Gleaner	Forest, Riparian
DEPA	Cup	Insects, Fruit	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest
DEPI	Cup	Insects, Seeds	Bark, Foliage	Bark Gleaner, Foliage Gleaner	Forest
DEDI	Cup	Insects	Foliage, Air	Foliage Gleaner, Hawker	Shrubland, Forest Edge
PRCI	Cavity	Insects, Aquatic Inverts	Bark, Foliage	Bark Gleaner, Foliage Gleaner	Swamp/Marsh, Riparian
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COMMON NAME	SCIENTIFIC NAME	LCTA	ALPHA	AOU#	NEO	NEST LOCATION
		CODE	CODE		STAT	
Warbler, Red-faced	Cardellina rubrifrons	CARU2	RFWA	6900	С	Ground
Warbler, Rufous-capped	Basileuterus rufifrons	BARU	RCWA	6921	R	Ground
Warbler, Swainson's	Limnothlypis swainsonii	LISW	SWWA	6380	Α	Shrub, Woody Lower Canopy
Warbler, Tennessee	Vermivora peregrina	VEPE	TEWA	6470	Α	Ground
Warbler, Townsend's	Dendroica townsendi	DETO	TOWA	6680	Α	Woody Lower Canopy '
Warbler, Virginia's	Vermivora virginiae	VEVI	VIWA	6440	Α	Ground
Warbler, Wilson's	Wilsonia pusilla	WIPU	WIWA	6850	Α	Ground, Vine Tangle
Warbler, Worm-eating	Helmitheros vermivorus	HEVE	WEWA	6390	Α	Ground
Warbler, Yellow	Dendroica petechia	DEPE1	YWAR	6520	Α	Shrub, Woody Lower Canopy
Warbler, Yellow-rumped	Dendroica coronata	DECO	YRWA*	6550	В	Woody Upper Canopy
Warbler, Yellow-throated	Dendroica dominica	DEDO	YTWA	6630	Α	Woody Upper Canopy
Waterthrush, Louisiana	Seiurus motacilla	SEMO	LOWA	6760	Α	Ground, Bank
Waterthrush, Northern	Seiurus noveboracensis	SENO	NOWA	6750	Α	Ground, Bank
Waxwing, Bohemian	Bombycilla garrulus	BOGA	BOWA	6180	R	Woody Upper Canopy
Waxwing, Cedar	Bombycilla cedrorum	BOCE	CEDW	6190	В	Woody Upper Canopy
Wheatear, Northern	Oenanthe oenanthe	OEOE	NOWH	7650	R	Ground
Whimbrel	Numenius phaeopus	NUPH	WHIM	2650	R	Ground
Whip-poor-will	Caprimulgus vociferus	CAVO	WPWI	4170	Α	Ground
Wigeon, American	Anas americana	ANAM	AMWI	1370	R	Ground
Wigeon, Eurasian	Anas penelope	ANPE	EUWI	1360	R	Ground
Willet	Catoptrophorus semipalmatus	CASE	WILL	2580	R	Ground
Woodcock, American	Scolopax minor	SCMI	AMWO	2280	R	Ground
Woodpecker, Acorn	Melanerpes formicivorus	MEFO	ACWO	4070	R	Snag, Woody Upper Canopy
Woodpecker, Black-backed	Picoides arcticus	PIAR	BBWO	4000	R	Snag
Woodpecker, Downy	Picoides pubescens	PIPU	DOWO	3940	R	Snag, Woody Upper Canopy
Woodpecker, Gila	Melanerpes uropygialis	MEUR	GIWO	4110	R	Cactus, Woody Upper Canopy
Woodpecker, Golden-fronted	Melanerpes aurifrons	MEAU	GFWO	4100	R	Snag, Woody Upper Canopy
Woodpecker, Hairy	Picoides villosus	PIVI	HAWO	3930	R	Woody Upper Canopy, Snag
Woodpecker, Ivory-billed	Campephilus principalis	CAPR	IBWO	3920	R	Snag, Woody Upper Canopy
Woodpecker, Ladder-backed	Picoides scalaris	PISC	LBWO	3960	R	Woody Lower Canopy, Shrub
Woodpecker, Lewis'	Melanerpes lewis	MELE	LEWO	4080	В	Woody Upper Canopy, Snag
Woodpecker, Nuttali's	Picoides nuttallii	PINU1	NUWO	3970	R	Snag, Woody Upper Canopy
Woodpecker, Pileated	Dryocopus pileatus	DRPI	PIWO	4050	R	Snag, Woody Upper Canopy
Woodpecker, Red-bellied	Melanerpes carolinus	MECA	RBWO	4090	R	Snag, Woody Upper Canopy
Woodpecker, Red-cockaded	Picoides borealis	PIBO	RCWO	3950	R	Woody Upper Canopy
Woodpecker, Red-headed	Melanerpes erythrocephalus	MEER	RHWO	4060	R	Snag, Woody Upper Canopy
Woodpecker, Strickland's	Picoides stricklandi	PIST	STWO	3980	R	Snag, Woody Upper Canopy
Woodpecker, Three-toed	Picoides tridactylus	PITR	TTWO	4010	R	Snag, Woody Lower Canopy
Woodpecker, White-headed	Picoides albolarvatus	PIAL	WHWO	3990	R	Snag, Woody Lower Canopy
Wren, Bewick's	Thryomanes bewickii	THBE	BEWR	7190	R	Woody Lower Canopy, Snag
Wren, Cactus	Campylorhynchus brunneicapillus	CABR	CACW	7130	R	Cactus, Woody Lower Canopy
Wren, Canyon	Catherpes mexicanus	CAME3	CANW	7170	R	Cliff
Wren, Carolina	Thryothorus Iudovicianus	THLU	CARW	7180	R	Woody Lower Canopy, Snag
Wren, House	Troglodytes aedon	TRAE	HOWR	7210	Α	Woody Lower Canopy, Snag
Wren, Marsh	Cistothorus palustris	CIPA	MAWR	7250	В	Reed
Wren, Sedge	Cistothorus platensis	CIPL	SEWR	7240	В	Ground
Wren, Winter	Troglodytes troglodytes	TRTR	WIWR	7220	R	Snag, Woody Lower Canopy
Wrentit	Chamaea fasciata	CHFA	WREN	7420	R	Shrub, Woody Lower Canopy

LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
CARU2	Cup	Insects	Foliage, Air	Foliage Gleaner, Hawker	Forest
BARU	Oven	Insects	Foliage, Air	Foliage Gleaner, Hawker	Shrubland, Forest
LISW	Cup	Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Swamp/Marsh, Riparian
VEPE	Cup	Insects, Fruit	Foliage	Foliage Gleaner	Swamp/Marsh, Forest Edge
DETO	Cup	Insects, Seeds	Foliage, Air	Foliage Gleaner, Hawker	Forest
VEVI	Cup	Insects	Ground, Air	Ground Gleaner, Hawker	Shrubland
WIPU	Cup	Insects, Fruit	Foliage, Air	Foliage Gleaner, Hover Gleaner	Shrubland, Riparian
HEVE	Cup	Insects	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Riparian, Forest
DEPE1	Cup	Insects, Fruit	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Riparian, Shrubland
DECO	Cup	Insects, Fruit	Foliage, Air	Foliage Gleaner, Hawker	Forest
DEDO	Cup	Insects	Bark, Foliage	Bark Gleaner, Foliage Gleaner	Forest, Swamp/Marsh
SEMO	Cup	Aquatic Inverts, Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Riparian, Swamp/Marsh
SENO	Cup	Aquatic Inverts, Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Swamp/Marsh, Riparian
BOGA	Cup	Fruit, Insects	Foliage, Air	Foliage Gleaner, Hawker	Forest, Forest Edge
BOCE	Cup	Fruit, Insects	Foliage, Air	Foliage Gleaner, Hawker	Forest, Forest Edge
OEOE	Crevice, Burrow	Insects, Seeds	Ground, Air	Ground Gleaner, Hawker	Tundra, Rocky Slope
NUPH	Scrape	Insects, Fruit	Ground, Water	Ground Gleaner, Prober	Swamp/Marsh, Tundra
CAVO	None	Insects	Air	Aerial Foraging	Forest
ANAM	Scrape	Greens, Aquatic Inverts	Water	Dabbler	Swamp/Marsh, Freshwater
ANPE	Scrape	Greens, Seeds	Water	Dabbler	Coastal, Pelagic
CASE	Scrape	Insects, Aquatic Inverts	Water	Prober	Coastal, Pelagic
SCMI	Scrape	Insects	Ground, Water	Prober	Swamp/Marsh, Riparian
MEFO	Cavity	Insects, Nuts	Bark, Air	Bark Gleaner, Bark Gleaner	Forest
PIAR	Cavity	Insects, Seeds	Bark	Bark Gleaner	Forest
PIPU	Cavity	Insects, Fruit	Bark	Bark Gleaner	Forest, Riparian
MEUR	Cavity	Insects, Fruit	Bark, Air	Bark Gleaner, Hawker	Desert, Urban
MEAU	Cavity	Insects, Nuts	Bark, Ground	Bark Gleaner, Ground Gleaner	Shrubland, Riparian
PIVI	Cavity	Insects	Bark	Bark Gleaner	Forest, Urban
CAPR	Cavity	Insects, Seeds	Bark, Ground	Bark Gleaner, Ground Gleaner	Swamp/Marsh, Riparian
PISC	Cavity	Insects, Fruit	Bark, Ground	Bark Gleaner, Ground Gleaner	Shrubland, Desert
MELE	Cavity	Insects, Nuts	Air, Ground	Hawker, Ground Gleaner	Forest, Riparian
PINU1	Cavity	Insects, Fruit	Bark, Air	Bark Gleaner, Hawker	Forest, Riparian
DRPI	Cavity	Insects, Fruit	Bark	Bark Gleaner	Forest, Urban
MECA	Cavity	Insects, Nuts	Bark, Air	Bark Gleaner, Hawker	Forest, Riparian
PIBO	Cavity	Insects, Fruit	Bark	Bark Gleaner	Forest
MEER	Cavity	Insects, Fruit	Air, Ground	Hawker, Swooper	Forest, Urban
PIST	Cavity	Insects, Fruit	Bark, Foliage	Bark Gleaner, Foliage Gleaner	Forest
PITR	Cavity	Insects, Tree Sap	Bark	Bark Gleaner	Forest, Riparian
PIAL	Cavity	Insects, Seeds	Bark, Ground	Bark Gleaner, Ground Gleaner	Forest
THBE	Cavity	Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Shrubland
CABR	Sphere	Insects, Small Verts	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Desert, Shrubland
CAME3	Crevice	Insects, Small Verts	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Rocky Slope, Urban
THLU	Cavity	Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Urban
TRAE	Cavity	Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Urban
CIPA	Sphere	Insects, Aquatic Inverts	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Swamp/Marsh
CIPL	Sphere	Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Swamp/Marsh
TRTR	Cavity	Insects	Ground, Foliage	Ground Gleaner, Foliage Gleaner	Forest, Riparian
CHFA	Cup	Insects, Fruit	Foliage, Bark	Foliage Gleaner, Bark Gleaner	Shrubland, Urban

COMMON NAME	SCIENTIFIC NAME	LCTA CODE	ALPHA CODE	AOU#	NEO STAT	NEST LOCATION
Yellowlegs, Greater	Tringa melanoleuca	TRME	GRYE	2540	R	Ground
Yellowlegs, Lesser	Tringa flavipes	TRFL	LEYE	2550	R	Ground
Yellowthroat, Common	Geothlypis trichas	GETR	COYE	6810	Α	Shrub, Woody Lower Canopy
Yellowthroat, Grav-crowned	Geothlypis poliocephala	GEPO	GCYE	6821	R	Ground

LCTA CODE	NEST TYPE	FOOD TYPE	FORAGING SUBSTRATE	FORAGING TECHNIQUE	GENERAL HABITAT
TRME	Scrape	Fish, Insects	Water	Prober	Coastal, Freshwater
TRFL	Scrape	Insects, Aquatic Inverts	Water, Ground	Prober, Ground Gleaner	Tundra
GETR	Cup	Insects, Seeds	Foliage, Air	Foliage Gleaner, Hover Gleaner	Forest Edge, Grassland
GEPO	Cup	Insects, Fruit	Foliage, Ground	Foliage Gleaner, Ground Gleaner	Forest Edge, Forest

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